

(B)

FACILITY NAME: BEP

EPA ID NUMBER: TX1200939626

{265 SUBPARTS A,B,C,D,E - GENERAL FACILITY REQUIREMENTS}

Subpart B - General Facility Standards (265.10)

1. Does the facility have an EPA Identification No.? ☒ Yes ☐ No  
If yes, what is that number? TX1200939626  
If no, explain

Required Notices (265.12)

2. Has the facility received hazardous waste from a foreign source? ☐ Yes ☒ No  
If yes, has the Regional Administrator been notified? ☐ Yes ☐ No N/A
3. Has the facility received waste from off-site for reuse, recycling or reclamation? ☐ Yes ☒ No
4. Has the owner/operator obtained detailed chemical and physical analyses of representative samples of all hazardous wastes prior to treating, storing or disposing of those wastes? ☒ Yes ☐ No  
If yes,  
a. Have the analyses been repeated as processes or operations generating the waste change? ☒ Yes ☐ No  
b. (for off-site facilities) Are analyses of hazardous waste received does not match the waste identified on the accompanying manifest? ☐ Yes ☐ No N/A
5. (for off-site facilities) Is each shipment of hazardous waste received at the facility inspected and, if necessary, analyzed to determine if it corresponds to the waste listed on the accompanying manifest? ☐ Yes ☐ No N/A
6. Does the facility have a written waste analysis plan? ☐ Yes ☒ No  
If yes, is a copy maintained at the facility? ☐ Yes ☒ No
7. Does the waste analysis plan include the following:  
a. Parameters for which each waste will be analyzed and the rationale for selection of these parameters? ☐ Yes ☒ No  
b. Test methods used to test for these parameters? ☐ Yes ☒ No

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- c. Sampling method used to obtain a representative sample? ☐ Yes ☒ No
- d. Frequency with which the initial analysis will be reviewed or repeated? ☐ Yes ☒ No
- If yes, does it include requirements to re-test when the process or operation generating the waste has changed? ☐ Yes ☐ No N/A
- e. (for off-site facilities) Waste analyses that generators have agreed to supply? ☐ Yes ☐ No N/A
- f. (for off-site facilities) Procedures which are used to inspect and analyze each shipment of hazardous waste received at the facility, including:
- i. Procedures used to determine the identity of each movement of waste? ☐ Yes ☐ No
- ii. Sampling method used to obtain representative sample of the waste to be identified? ☐ Yes ☐ No

Security (265.14)

8. Does the facility provide adequate security to minimize the possibility for unauthorized entry of persons or livestock onto the active portions of the facility? ☒ Yes ☐ No

If no, describe the situation at the facility, document the facility's exemption under 265.14 a. (1) and (2).

If not exempt, is security provided through:

- a. 24-hour surveillance system which continuously monitors and controls entry onto the active portion? (e.g. television monitoring or guards). ☒ Yes ☐ No

OR

- b(i). Artificial or natural barrier completely surrounding the active portion? (e.g. fence or and cliff)? ☒ Yes ☐ No

Describe type of security:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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and

- b(ii). Means to control entry at all times, through the gates or other entrances to the active portion (attendant, television monitors, locked entrance, controlled roadway access)?

☒ Yes ☐ No

Describe type of security:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Include a drawing indicating any inadequates in the facility's security system.

- c. Is a sign with the legend "Danger-Unathorized Personnel Keep Out" posed at the entrance and at other locations in sufficient numbers to be seen from any approach to the active portion?

☒ Yes ☐ No

- d. Is it written in English and legible from at least 25 feet?

☒ Yes ☐ No

NOTE: The sign must be written in any other language predominant in the area surrounding the facility (e.g. In New Mexico and Texas areas bordering Mexico, the sign must also be in Spanish).

- e. If an existing sign with a legend other than "Danger-Unathorized Personnel Keep Out", what does that legend say?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General Inspection Requirements (265.15)

9. Does the owner/operator maintain a written inspection schedule?

☐ Yes ☒ No

If yes,

- a. Does it contain, at a minimum, schedules for inspecting the following:

- i. Monitoring equipment? (If applicable)

☐ Yes ☒ No

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- ii. Safety and emergency equipment? ☐ Yes ☒ No
- iii. Security devices? ☐ Yes ☒ No
- iv. Operating and structural equipment?  
(if applicable) ☐ Yes ☒ No
- b. Does the schedule or plan identify the following types of problems to be looked for during inspection:
- i. Malfunction or deterioration?  
(e.g. inoperative sump pump, leaking fitting, eroding dike, corroded pipes or tanks, etc.) ☐ Yes ☒ No
- ii. Operator error? ☐ Yes ☒ No
- iii. Discharges?  
(e.g. leaks from valves or pipes joint breaks) ☐ Yes ☒ No
- c. Is the schedule maintained at the facility? ☐ Yes ☒ No
- d. Are these inspections conducted? ☐ Yes ☒ No
10. Does the owner/operator have an inspection log? ☐ Yes ☒ No
- If yes, does it include:
- a. Date and time of inspection? ☐ Yes ☐ No
- b. Name of inspector? ☐ Yes ☐ No
- c. Notation of observations? ☐ Yes ☐ No
- d. Date and nature of repairs or remedial action? ☐ Yes ☐ No
- i. Are there any malfunctions or other deficiencies noted in the inspection log that remain uncorrected?  
(Use narrative explanation sheet).
- e. Are records of the inspection log maintained at the facility for three (3) years? ☐ Yes ☐ No

Personnel Training (265.16)

11. Have facility personnel successfully completed a program of classroom or on-the-job training? ☐ Yes ☒ No

only training in place is 8 hr refresher-  
no details of content of training

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- a. Does the training program include instructions in the following:
- i. Procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment? ☐ Yes ☒ No
  - ii. Key parameters for automatic waste feed cut-off systems? (If applicable) ☐ Yes ☐ No
  - iii. Operation of communication or alarm systems? ☐ Yes ☐ No
  - iv. Response to fires, explosions and groundwater contamination incidents? ☐ Yes ☐ No
  - v. Shutdown of operations? ☐ Yes ☐ No
  - vi. General hazardous waste management procedures? ☐ Yes ☐ No
- b. Is the program directed by a person trained in hazardous waste management procedures? ☐ Yes ☐ No
- c. Have personnel completed annual training reviews? ☐ Yes ☐ No
- d. Does the owner/operator maintain the following documents:
- i. Job title, job description and name of employee for each position at the facility related to hazardous waste management? ☐ Yes ☒ No
  - ii. Written description of the type and amount of both introductory and continuing training? ☐ Yes ☒ No
  - iii. Written documentation that the training has been completed by facility personnel? ☒ Yes ☐ No

Requirements for Ignitable, Reactive or Incompatible Waste (265.17)

12. Does facility handle ignitable or reactive wastes? ☒ Yes ☐ No
- a. If yes, is waste separated and confined from sources of ignition or reaction. (open flames, smoking, cutting and welding, hot surfaces, frictional heat) sparks (static, electrical or mechanical), spontaneous ignition (e.g. from heat producing chemical reactions) and radiant heat? ☒ Yes ☐ No

*copies of certificates*

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- b. Are smoking and open flame confined to specifically designated locations? ☒ Yes ☐ No
- c. Are "No Smoking" signs posted in hazardous areas where ignitable or reactive wastes are handled? ☒ Yes ☐ No
- d. Is waste handled in a manner which generates extreme heat, pressure, violent reaction, toxic fumes or other dangers to human health or the environment? ☐ Yes ☒ No

**Subpart C - Preparedness and Prevention (265.30)**

**Maintenance and Operation of Facility (265.31)**

1. Is there evidence of fire, explosion or contamination of the environment? ☐ Yes ☒ No
- If yes, use narrative explanations sheet to explain.

**Required Equipment (265.32)**

2. Is the facility equipped with the following:
- a. Internal communications or alarm system? ☒ Yes ☐ No
- b. Telephone or two-way radio to call emergency response personnel? ☒ Yes ☐ No
- c. Portable fire extinguishers, fire control equipment spill control equipment and decontamination equipment? ☒ Yes ☐ No
- d. Water of adequate volume for hoses, sprinklers or water spray system? ☒ Yes ☐ No
- i. Describe source of water
- \_\_\_\_\_
- \_\_\_\_\_
- ii. Indicate flow rate and/or pressure and storage capacity, if available.
- \_\_\_\_\_
- \_\_\_\_\_

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EPA ID NUMBER: \_\_\_\_\_

Testing and Maintenance (265.33)

3. Is equipment tested to assure its proper operation? ☒ Yes ☐ No

Access to Communication or Alarm Systems (265.34)

4. Do personnel involved in hazardous waste management have immediate access to an internal alarm or communications device? ☒ Yes ☐ No

Required Aisle Space (265.35)

5. Is there sufficient aisle space to allow unobstructed movement of personnel and emergency equipment? ☒ Yes ☐ No

Arrangements with Local Authorities (265.37)

6. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.)

*Ft Worth FD does annual visits to facility*

☒ Yes ☐ No

If no, has the owner/operator attempted to make such arrangements?

☐ Yes ☐ No

7. In the case that more than one police or fire department might respond, is there a designated primary authority?

☐ Yes ☐ No *N/A*

If yes,

- a. Indicate primary authority:

\_\_\_\_\_

- b. Is the fire department a city or volunteer fire department?

\_\_\_\_\_

8. Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers?

☒ Yes ☐ No

Are they readily available to the emergency coordinator?

☒ Yes ☐ No

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EPA ID NUMBER: \_\_\_\_\_

9. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?

☒ Yes ☐ No

If no, has the owner/operator attempted to do this?

☐ Yes ☐ No N/A

10. If the State, or local authorities decline to enter into the above referenced agreements has this situation been entered in the operating record?

☐ Yes ☒ No

Subpart D - Contingency Plan and Emergency Procedures (265.50)

Content of Contingency Plan (265.52)

1. Does the facility have a contingency plan?

☒ Yes ☐ No

a. If yes, does it contain:

- i. Actions to be taken in response to emergencies?

☒ Yes ☐ No

- ii. Description of arrangements with police, fire and hospital officials?

☒ Yes ☐ No

- iii. List of names, addresses, phone numbers of persons qualified to act as emergency coordinator?

☒ Yes ☐ No

- iv. List including the location and physical description of all emergency equipment?

☐ Yes ☒ No

- v. Evacuation plan for facility personnel including signals, primary and alternate routes?

☒ Yes ☐ No

2. Is the plan a revised SPCC Plan?

☐ Yes ☒ No

Copies of Contingency Plan (265.53)

3. Is a copy of the contingency plan maintained at the facility?

☒ Yes ☐ No

4. Has a copy been supplied to local police, fire depts., and hospitals?

☒ Yes ☐ No

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EPA ID NUMBER: \_\_\_\_\_

Amendment of Contingency Plan (265.54)

5. Has the contingency plan been updated and amended as necessary?

\_\_\_ Yes ☒ No

Emergency Coordinator (265.55)

6. Is there an emergency coordinator on-site or within short driving distance of the plant at all times?

☒ Yes \_\_\_ No

If yes, list primary emergency coordinator:

Colleen McKinney

Subpart E - Manifest System, Recordkeeping and Reporting (265.70)

Use of Manifest (265.71)

1. Has facility received hazardous waste from off-site since November 19, 1980?

\_\_\_ Yes ☒ No

If no, questions 2 and 3 are not applicable.

If yes, does the facility retain copies of all manifests for at least three (3) years?

\_\_\_ Yes \_\_\_ No

- a. Are the manifests signed and dated and returned to the generator?

\_\_\_ Yes \_\_\_ No

- b. Is a signed copy given to the transporter?

\_\_\_ Yes \_\_\_ No

2. Has the facility received any hazardous waste from a rail or water (bulk shipment) transporter since November 19, 1980?

\_\_\_ Yes \_\_\_ No

If yes, is it accompanied by a shipping paper?

\_\_\_ Yes \_\_\_ No

- a. Does the owner/operator sign and date the shipping paper and return a copy to the generator?

\_\_\_ Yes \_\_\_ No

- b. Is a signed copy given to the transporter?

\_\_\_ Yes \_\_\_ No

Manifest Discrepancies (265.72)

3. Has the facility received any shipments of hazardous waste since November 19, 1980, which were inconsistent with the manifest?

\_\_\_ Yes \_\_\_ No *N/A*

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If yes, has he resolved the discrepancy with the generator and transporter within 15 days?

\_\_\_ Yes \_\_\_ No

If no, has Regional Administrator been notified in writing?

\_\_\_ Yes \_\_\_ No

Operating Record (265.73)

4. Does the facility have a written operating record?

\_\_\_ Yes ☒ No

a. Is a copy maintained at the facility?

\_\_\_ Yes ☒ No

b. Does the record include:

i. Description and quantity of each hazardous waste and the methods and dates of its treatment, storage or disposal at the facility?

\_\_\_ Yes ☒ No

ii. Location and quantity of each hazardous waste at each location?

\_\_\_ Yes \_\_\_ No

iii. (for disposal facilities only) Location and quantity of each hazardous waste recorded on a map or diagram of each cell or disposal area?

\_\_\_ Yes \_\_\_ No

iv. Record and results of waste analyses?

\_\_\_ Yes \_\_\_ No

v. Reports of incidents involving implementation of the contingency plan? (If applicable)

\_\_\_ Yes \_\_\_ No

vi. Records and results of required inspections?

\_\_\_ Yes \_\_\_ No

vii. Monitoring, testing or analytical data where required?

\_\_\_ Yes \_\_\_ No

viii. Closure cost estimates and for disposal facilities, post-closure cost estimates?

\_\_\_ Yes \_\_\_ No

Availability, Retention, and Disposition of Records (265.74)

5. Have all plans and reports been visually inspected and/or been made available for inspection?

☒ Yes \_\_\_ No

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

List plans and/or reports not made available for inspection. If reports are accessible and not made available or inspection, explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. Did operator provide inspector with a drawing of the facility?

☒ Yes ☐ No

- a. If yes, please indicate which are hazardous waste facilities on the drawing.

Biennial Reports (265.75)

7. Has the owner/operator submitted biennial reports as required?

☒ Yes ☐ No

Unmanifested Waste Report (265.76)

8. Has the facility received any waste (that does not come under the small generator exclusion) not accompanied by a manifest?

☐ Yes ☐ No N/A

If yes, has he submitted an unmanifested waste report to the Regional Administrator within 15 days?

☐ Yes ☐ No |

Indicate Types of Hazardous Waste Facilities

- ☒ Containers
- ☐ Tanks
- ☐ Surface Impoundments
- ☐ Waste Piles
- ☐ Land Treatment
- ☐ Landfill
- ☐ Incinerator
- ☐ Thermal Treatment
- ☐ Chemical, Physical and Biological Treatment
- ☐ Groundwater Monitoring Program

✓

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FACILITY NAME: BEP  
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**RCRA COMPLIANCE INSPECTION REPORT**  
**GENERATORS CHECKLIST**

NOTE: On multiple part questions, circle those not in compliance.

**EPA Identification NO. (262.12)**

1. Does the Generator have an EPA I.D. No.? XYes \_\_\_No  
A. If yes, what is that number?

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**Hazardous Waste Determination (262.11)**

1. Does the generator generate hazardous waste(s) listed in Subpart D? (261.30 - 261.33 - List of Hazardous Waste)

XYes \_\_\_No

- a. If yes, list wastes and quantities on attachment (Include EPA Hazardous Waste Number, waste name and description).

*see annual report*

2. Does the generator generate solid waste(s) that exhibit hazardous characteristics? (circle those applicable - corrosivity, ignitability, reactivity, TC toxicity) (261.20 - 261.24 - Characteristics of Hazardous Waste)

XYes \_\_\_No

- a. If yes, list wastes and quantities on attachment (Include EPA Hazardous Waste Number, Waste Name and Description.)

*see annual report*

- b. Does the generator determine characteristics by testing or by applying knowledge of processes?

KOP

- i. If determined by testing, did the generator use test methods in Part 261, Subpart C (or Equivalent)?

\_\_\_Yes \_\_\_No *N/A*

- ii. If equivalent test were methods used, attach copy of equivalent methods used.

3. Are there any other solid wastes deemed non-hazardous generated by the generator? (i.e. process waste streams, collected matter from air pollution control equipment, water treatment sludge, etc.)

XYes \_\_\_No

- a. If yes, did the generator determine non-hazardous characteristics by testing or knowledge of process?

testing

tested all units 2/2/98

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

- i. If determined by testing, did the generator use test methods in Part 261, Subpart C (or Equivalent)? X Yes \_\_\_ No
- ii. If equivalent test methods were used, attach copy of equivalent methods used.
- b. List wastes and quantities deemed non-hazardous or processes from which non-hazardous wastes were produced. (Use narrative explanations sheet) inks  
waste treatment solid
4. Are any wastes recycled, reused or reclaimed on-site? \_\_\_ Yes X No  
If yes, use narrative sheet to describe the type and quantity of the waste and the method used for reclamation.
5. Are any wastes shipped off-site for reclamation? \_\_\_ Yes X No  
If yes, use narrative to describe the type and quantity of the waste and its destination. Also give a description of storage prior to shipment.
6. Is the total quantity of hazardous wastes generated?  
a. Less than 100 kg/month? \_\_\_ Yes X No  
b. More than 1000 kg/month? X Yes \_\_\_ No  
c. More than 100 but less than 1000 kg/month? \_\_\_ Yes X No

Manifest

1. Does the generator ship hazardous waste off-site? X Yes \_\_\_ No  
a. If no, do not fill out Section C and D.  
b. If yes, identify primary off-site facility(s). (Use narrative explanations sheet) Waste Mgt - OKC  
Chem Waste - Sulphur, LA  
Laidlaw, Millington, TN
2. Has the generator shipped hazardous waste off-site since November 19, 1980? X Yes \_\_\_ No
3. Is the generator exempted from regulation because of:  
Small quantity generator (261.5 - Special requirements) \_\_\_ Yes X No

OR

GENERATORS

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Produces only non-hazardous solid waste at this time (261.4 - Exclusions)

\_\_\_Yes ☒ No

4. If the generator is exempted as a small quantity generator are the following requirements met?

N/A

- a. The waste is reclaimed under a contractual agreement in which:
- i. The type of waste and frequency of shipments specified in the agreement?
- ii. The vehicles used to transport the waste to the recycling facility and to deliver regenerated material back to the generator is owned and operated by the reclaimer of the waste?
- b. The generator maintains a copy of the reclamation agreement in his files for a period of at least three years after termination or expiration of the agreement?

\_\_\_Yes \_\_\_No

\_\_\_Yes \_\_\_No

\_\_\_Yes \_\_\_No

Required Information (262.21)

5. If not exempted does the generator use manifest?
- a. If yes, does manifest include the following information (262.21 - Required information)

☒ Yes \_\_\_No

☒ Yes \_\_\_No

(Circle those not on manifest)

- i. Manifest Document No.
- ii. Generators Name, Mailing Address, Tele. No.
- iii. Generator EPA I.D. No.
- iv. Transporter(s) Name and EPA I.D. No.
- v. Facility Name, Address and EPA I.D. No.
- vi. DOT description of the waste
- vii. a. Quantity (weight or volume)  
b. Containers (type and number)
- viii. Emergency Information (optional)  
(Special handling instructions, Phone No.)

see examples

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

ix. Waste minimization certification

x. Is the following certification on each manifest form?

☒ Yes \_\_\_ No

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA.

Uses of the Manifest (263.23)

6. Does the generator retain copies of manifests?

☒ Yes \_\_\_ No

(Check completed manifests at random. Indicate how many manifests were inspected, how many violations were noted and the type of violation.)

If yes, complete a through e. If questions contain more than one item, circle those not in compliance.

a. i. Did the generator sign and date all manifests inspected?

☒ Yes \_\_\_ No

ii. Who signed for the generator?

Name: RICK HILL OF CELLEEN MCKINNEY

Title: \_\_\_\_\_

I.D. Number: \_\_\_\_\_

b. i. Did the generator obtain handwritten signature and date of acceptance from initial transporter?

☒ Yes \_\_\_ No

ii. Who signed for the transporter?

Name: VARIOUS

Title: \_\_\_\_\_

I.D. Number: \_\_\_\_\_

c. Does the generator retain one copy of manifest signed by generator and transporter?

☒ Yes \_\_\_ No

d. Do returned copies of manifest include facility owner/operator signature and date of acceptance?

☒ Yes \_\_\_ No

e. If copy of manifest from facility was not returned within 45 days, did the generator file an exception report?  
(262.42 - Exception reporting)

\_\_\_ Yes \_\_\_ No N/A

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

- i. If yes, did it contain the following information:

Legible copy of manifest

\_\_\_Yes\_\_\_No

N/A

AND

Cover letter explaining generators efforts to locate waste.

\_\_\_Yes\_\_\_No

- f. Does (will) the generator retain copies for 3 years?

XYes\_\_\_No

Pre-Transport Requirements

1. Does the generator package waste?

XYes\_\_\_No

If no, skip to question 9.

If yes, complete the following questions.

Inspect containers ready for immediate shipment.

If there are no such containers, skip to question 8.

2. Does the generator package waste in accordance with 49 CFR 173, 178, and 179? (DOT requirements) (262.30 - Packaging)

XYes\_\_\_No

3. Are containers to be shipped leaking, corroding or bulging?

\_\_\_YesXNo

Use narrative explanations sheet to describe containers and condition.

I was collapsed

4. Does the generator use DOT labeling requirements in accordance with 49 CFR 172 when containers are offered for shipment? (262.31 - Labeling)

XYes\_\_\_No

5. Does the generator mark each package in accordance with 49 CFR 172 when containers are offered for shipment? (262.32 - Marking)

XYes\_\_\_No

6. a. Is each container of 110 gallons or less marked with the following label when containers are offered for shipment?

XYes\_\_\_No

HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator's Name and Address \_\_\_\_\_

Manifest Document Number \_\_\_\_\_

- b. If other labels exist, list in narrative.

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7. If there are any vehicles present on site loading or unloading hazardous waste, inspect for presence of placards. Note this instance on narrative explanation sheet.

8. Satellite Accumulation (effective June 20, 1985)

- a. Does the generator accumulate waste in containers at or near "Satellite" generation points?

☒ Yes ☐ No

If no, skip to question 9.  
If yes, complete the following.

Contractor SAP not near  
point of generation

- b. Are containers in good condition?

☒ Yes ☐ No

- c. Is the waste compatible with the containers?

☒ Yes ☐ No

- d. Is waste transferred from leaking containers or otherwise managed to control leakage?

☒ Yes ☐ No

- e. Are containers closed?

☐ Yes ☒ No not in in  
mill

- f. Are containers marked with the words "hazardous waste" or identification of the contents?

☐ Yes ☒ No not in in  
mill

- g. Has waste accumulation exceeded one (1) quart of acutely hazardous waste (261.33 e.) or 55 gallons of other hazardous waste?

☐ Yes ☒ No

If yes,

- i. Has the container holding the excess amount been marked with the date the excess began accumulating?

☐ Yes ☐ No

- ii. Have excess amounts remained in the satellite accumulation area longer than three (3) days?

☐ Yes ☐ No

9. Accumulation Time (262.34 - Accumulation Time for Small Quantity Generators)

- a. Is waste generated > 100 kg/month, but < 1000 kg/month?

☐ Yes ☒ No

If yes, answer rest of question #9.  
If no, skip to question #10.

- b. Is hazardous waste shipped offsite within 180 days?

☐ Yes ☐ No

- c. Has the quantity of waste accumulated on-site exceeded 6000 kilograms?

☐ Yes ☐ No

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EPA ID NUMBER: \_\_\_\_\_

- d. Does the generator comply with the requirements of Part 265 Subpart C, Preparedness and Prevention? \_\_\_Yes\_\_\_No *N/A*
10. Accumulation Time (262.34 - Accumulation Time)
- a. Is the site a permitted/interim status storage facility? \_\_\_Yes\_\_\_☒No  
If yes, skip to Section E, and complete and attach the TSD checklist and appropriate supplemental checklists. If no, answer rest of question #8.
- b. Is hazardous waste shipped offsite within 90 days? ☒Yes\_\_\_No
- c. Is waste stored in containers or tanks? *both* ☒Yes\_\_\_No
- d. Is the beginning date of accumulation time clearly indicated on each container? ☒Yes\_\_\_No
- e. Is each container or tank marked with the words "Hazardous Waste"? ☒Yes\_\_\_No
- f. Complete and attach the containers/tanks supplemental checklists as appropriate.
- g. If the generator accumulates waste on-site for less than 90 days, complete RCRA Generators Checklist Supplement.

Recordkeeping and Report

1. Is the generator keeping the following reports for a minimum of three (3) years? (262.40 - Recordkeeping):
- a. Manifests and signed copies from designated facilities? ☒Yes\_\_\_No
- b. Biennial reports (or reports as required by state agencies) ☒Yes\_\_\_No
- c. Exception Reports ☒Yes\_\_\_No
- d. Test results, where applicable. ☒Yes\_\_\_No
2. Where are records kept (at facility or elsewhere)?  
*in office*

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

3. Who is in charge of keeping the records?

Name: Colleen McKinney

Title: Chemical Engineer

Special Condition

1. Has the generator received from or transported to a foreign source any hazardous waste?  
(262.50 - International Shipments)

\_\_\_ Yes ☒ No

If yes,

- a. Has a note been filed with the R.A.?

\_\_\_ Yes \_\_\_ No

N/A

- b. Is this waste manifested and signed by Foreign Consignee?

\_\_\_ Yes \_\_\_ No

- c. If the generator transported wastes out of the country has he received confirmation of delivered shipment?

\_\_\_ Yes \_\_\_ No

- d. Has the generator filed an annual report (by March 1 of each year) giving the type, quantity, frequency and destination of all exported hazardous waste? (Per HSWA 1984)

\_\_\_ Yes \_\_\_ No

FACILITY NAME: BEP  
EPA ID NUMBER: TX1200939626

**RCRA GENERATORS CHECKLIST**  
**SUPPLEMENT**

**Personnel Training (265.16)**

1. Have facility personnel successfully completed a program of classroom or on-the-job training?

     Yes X No

a. Does the training program include instructions in the following:

(1) procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment?

     Yes      No

(2) key parameters for automatic waste feed cut-off systems?

     Yes      No

(3) operation of communication or alarm systems?

     Yes      No

(4) response to fires, explosions and groundwater contamination incidents?

     Yes      No

(5) shutdown of operations?

     Yes      No

(6) general hazardous waste management procedures?

     Yes      No

b. Is the program directed by a person trained in hazardous waste management procedures?

     Yes      No

c. Have personnel completed annual training reviews?

     Yes      No

d. Does the owner/operator maintain the following documents:

(1) Job title, job description and name of employee for each position at the facility related to hazardous waste management?

     Yes X No

(2) Written description of the type and amount of both introductory and continuing training?

     Yes X No

(3) Written documentation that the training has been completed by facility personnel?

     Yes X No

only training  
was 8hr  
refresher  
-do not know  
contents of  
training

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

Preparedness and Prevention (265.30)

1. Is there evidence of fire, explosion or contamination of the environment? (265.31 - Maintenance and operation of facility)      Yes X No

If yes, use narrative explanations sheet to explain.

2. Is the facility equipped with (265.32 - Required equipment)
- a. Internal communications or alarm system X Yes      No
- b. Telephone or two-way radio to call emergency response personnel X Yes      No
- c. Portable fire extinguishers, fire control equipment spill control equipment and decontamination equipment X Yes      No
1. Is this equipment tested to assure its proper operation? X Yes      No
- d. Water of adequate volume for hoses, sprinklers or water spray system X Yes      No

1. Describe source of water

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Indicate flow rate and/or pressure and storage capacity, if available.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Is there sufficient aisle space to allow unobstructed movement of personnel and emergency equipment? (265.35-Required Aisle Space) X Yes      No
4. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.) (265.37 - Arrangements with local authorities) X Yes      No

If no, has the owner/operator attempted to make such arrangements?      Yes      No

Ft Worth Fire Dept. does annual tours  
of facility.

have ambulance service available

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

5. In the case that more than one police or fire department might respond, is there a designated primary authority? (265.37 - Arrangements with local authorities)

\_\_\_Yes\_\_\_No *N/A*

If yes, indicate primary authority:

- a. Is the fire department a city or volunteer fire department?

6. Does the owner/operator have phone numbers or and agreements with State emergency response teams, emergency response contractors and equipment suppliers?

☒Yes\_\_\_No

Are they readily available to the emergency coordinator? (265.37 - Arrangements with local authorities)

☒Yes\_\_\_No

7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?

\_\_\_Yes\_\_\_☒No

If no, has the owner/operator attempted to do this? (265.37 - Arrangements with local authorities)

\_\_\_Yes\_\_\_☒No

Contingency Plan and Emergency Procedures (265.50) (

1. Does the facility have a contingency plan? (265.52 Content of Contingency Plan)

☒Yes\_\_\_No

a. If yes, does it contain:

1. actions to be taken in response to emergencies?

☒Yes\_\_\_No

2. description of arrangements with police, fire and hospital officials?

\_\_\_Yes\_\_\_☒No

3. list of names, addresses, phone numbers of persons qualified to act as emergency coordinator?

☒Yes\_\_\_No

4. list, including the location and physical description of all emergency equipment?

\_\_\_Yes\_\_\_☒No

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

5. evacuation plan for facility personnel including signals, primary and alternate routes? ☒ Yes \_\_\_ No
2. Is a copy of the contingency plan maintained at the facility? (265.53 - Copies of contingency plan) ☒ Yes \_\_\_ No
3. Has a copy been supplied to the local police, fire depts., and hospitals? (265.53 - Copies of contingency plan) ☒ Yes \_\_\_ No
4. Has the contingency plan been updated and amended as necessary? \_\_\_ Yes ☒ No
5. Is the plan a revised SPCC Plan? (265.52 - Content of contingency plan) \_\_\_ Yes ☒ No
6. Is there an emergency coordinator on-site or within short driving distance of the plant at all times? ☒ Yes \_\_\_ No

If yes, list primary emergency coordinator:

\_\_\_\_\_  
\_\_\_\_\_

most of contingency plan is from  
9/26/94.

The chemical emergency part of plan  
has been updated as of 5/1/98.

FACILITY NAME: BEP  
EPA ID NUMBER: TX1200939626

CONTAINERS STORAGE CHECKLIST  
(SUBPART I - USE AND MANAGEMENT OF CONTAINERS 265.170)

1. Does the facility store hazardous waste in containers? X Yes    No  
If no, do not complete this form.

Condition of Containers (265.171)

2. Are the containers in good condition?  
(check for leaks, corrosion, bulges, etc.) X Yes    No  
If no, explain in narrative and document with photograph. *except for 1*
3. If a container is found to be leaking, does the operator transfer the hazardous waste from the leaking container? X Yes    No

Compatibility of Waste with Containers (265.172)

4. Is the waste compatible with the containers and/or its liner? X Yes    No  
If no, explain in narrative.

Management of Containers (265.173)

5. Are the stored containers closed?    Yes X No  
If no, explain in narrative. *not in SAPs*
6. Are containers holding hazardous waste opened, handled or stored in such a manner as to cause the container to rupture or leak?    Yes X No  
If yes, explain in narrative.

Inspections (265.174)

7. Are each of the containers inspected at least weekly?    Yes X No  
If no, explain in the narrative the frequency of inspection.

FACILITY NAME: \_\_\_\_\_

EPA ID NUMBER: \_\_\_\_\_

Special Requirements for Ignitable or Reactive Waste (265.176)

8. Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility property line?

☒ Yes ☐ No

If no, explain in narrative and document with photograph.

Special Requirements for Incompatible Wastes (265.177)

9. Are incompatible wastes stored in the same containers?

☐ Yes ☒ No

If yes, explain in narrative.

10. Are hazardous waste stored in an unwashed container that previously held an incompatible waste?

☐ Yes ☒ No

11. Are containers holding incompatible wastes kept apart by physical barrier or sufficient distance?

☒ Yes ☐ No

If no, explain in narrative.

FACILITY NAME: Western Currency FacilityEPA ID NUMBER: TX1200939626TANKS CHECKLIST

Effective July 14, 1986

Applicability (40 CFR 265.190)

1. Are tanks used to store or treat hazardous waste? Yes ☒ No
2. Complete the following table for all tanks.

Tank Identification	Location	New or Existing Tank	Date put into Service	Wastes Handled
CST 01	Exterior, Ink Mill	New	6/30/94	Ink Components
UG - 24	Exterior, WTP	New	3/27/91	Caustics
UG - 22	Exterior, Ink Mill	New	6/15/90	Diesel Fuel
UG - 23	Exterior, Ink Mill	New	6/15/90	Diesel Fuel
UG-25	Vault, VSB	New	4/1/91	Flammable Liquids

Existing Tank System (40 CFR 265.191)

1. Were any hazardous waste storage or treatment tanks constructed or put into service after July 14, 1986?

Yes ☒ No

If yes, complete 'New Tank System'.

If no, continue.

2. Has the existing tank system's integrity been reviewed and certified by an independent, qualified registered professional engineer?

Yes ☐ No

If yes,

- a. Did the assessment determine that the tank system is adequately designed (i.e. has sufficient structural strength and is compatible with the wastes to ensure that it will not collapse, rupture, or fail)?

Yes ☐ No

TANKS

1.

REVISION--MAY 1992

Bureau of Engraving & Pri  
FACILITY NAME: Western Currency Facility

EPA ID NUMBER: TX1200939626

If yes, did it include:

- a. Design standard(s) according to which the tank and ancillary equipment were constructed? \_\_\_ Yes \_\_\_ No
  - b. Hazardous characteristics of the waste(s) that have been and will be handled? \_\_\_ Yes \_\_\_ No
  - c. Existing corrosion protection measures? \_\_\_ Yes \_\_\_ No
  - d. Documented or estimated protection measures? \_\_\_ Yes \_\_\_ No
  - e. Results of leak test, internal inspections or other tank integrity examinations? \_\_\_ Yes \_\_\_ No
3. If the tank is non-enterable, did the assessment include a leak test? \_\_\_ Yes \_\_\_ No
- If yes, did the leak test include:
- a. Temperature variation? \_\_\_ Yes \_\_\_ No
  - b. Tank end deflection? \_\_\_ Yes \_\_\_ No
  - c. Vapor pockets? \_\_\_ Yes \_\_\_ No
  - d. High water table? \_\_\_ Yes \_\_\_ No
4. Is this written assessment kept on file at the facility? \_\_\_ Yes \_\_\_ No

New Tank Systems (40 CFR 265.192)

1. Has the integrity of the tank system been reviewed and certified by an independent, qualified registered professional engineer? ✓ \_\_\_ Yes \_\_\_ No
2. Does the assessment include the following information:
  - a. Design standards according to which tank(s) and/or ancillary equipment are constructed? ✓ \_\_\_ Yes \_\_\_ No
  - b. Hazardous characteristics of waste(s) to be handled? ✓ \_\_\_ Yes \_\_\_ No
  - c. Factors affecting potential for corrosion (for tanks in which external metal components of the tank will be in contact with soil) by a corrosion expert? ✓ \_\_\_ Yes \_\_\_ No

Note: The factors affecting the potential for corrosion should include:

1. Soil moisture content;
2. Soil pH;
3. Soil sulfides level;
4. Soil resistivity;
5. Structure to soil potential;
6. Influence of nearby underground metal structures (e.g. piping);
7. Existence of stray electric current;
8. Existing corrosion-protection measures (e.g. coating, cathodic protection); and
9. Type and degree of external corrosion protection.

d. Was an analysis completed to determine that the underground tank system components will not be affected by vehicle traffic?

☒ Yes ☐ No

e. Was an analysis completed on the design considerations of each tank to ensure that the foundation will maintain a fully loaded tank and that system components are anchored to prevent flotation, dilodgment, or frost heave?

☒ Yes ☐ No

3. Prior to covering the tank system, did an independent, qualified registered professional engineer inspect the tanks for the following:

a. weld breaks?

☒ Yes ☐ No

b. punctures?

☒ Yes ☐ No

c. scrapes of protective coating?

☒ Yes ☐ No

d. cracks?

☒ Yes ☐ No

e. corrosion?

☒ Yes ☐ No

f. other structural damage or inadequate construction/installation?

☒ Yes ☐ No

4. Were any components of the tank placed underground?

If yes,

☒ Yes ☐ No

a. Was backfill material a non-corrosive, porous, homogeneous substance that has been installed and compacted to ensure hat the tank and piping are supported?

☒ Yes ☐ No

5. Was the tank and ancillary equipment tested for tightness prior to being covered, enclosed, or placed in use?

☒ Yes ☐ No

Containment and Detection of Releases (40 CFR 265.193)

Note: For existing tanks storing F020-F023, F026-F027 (Dioxin Wastes), secondary containment is required within 2 years after January 12, 1987. For all other existing tank systems secondary containment systems are required by January 12, 1989 or 15 years from the date the tank was installed, whichever comes later.

1. Are any tanks situated inside a building with an impermeable floor?  
\_\_\_\_\_ Yes ☒ No  
If yes,
  - a. Do these tanks contain hazardous waste with free liquids (265.190(a))?  
\_\_\_\_\_ Yes \_\_\_\_\_ No
  - b. Was the Paint Filter Liquid Test used to demonstrate the absence or presence of free liquids (265.190(a))?  
\_\_\_\_\_ Yes \_\_\_\_\_ No
2. Are any tanks part of a secondary containment system used to collect or contain releases of hazardous wastes?  
☒ Yes \_\_\_\_\_ No  
Note: If #1 or #2 are yes, then 265.193 of this checklist is not applicable for these tanks.
3. Does the tank have a secondary containment system?  
☒ Yes \_\_\_\_\_ No
4. Is the secondary containment system constructed of or lined with materials compatible with the wastes?  
☒ Yes \_\_\_\_\_ No
5. Does the secondary containment system have a leak-detection system?  
☒ Yes \_\_\_\_\_ No  
If yes,
  - a. Is the leak-detection system capable of detecting failure of the secondary containment or presence of releases of hazardous wastes within 24 hours?  
☒ Yes \_\_\_\_\_ No
6. Is the secondary containment system sloped and designed to drain and remove liquids resulting from leaks, spills, or precipitation?  
☒ Yes \_\_\_\_\_ No
  - a. Are spills removed from the secondary containment system within 24 hours?  
☒ Yes \_\_\_\_\_ No
7. If the answer to #3 and #4 is no, was the Regional Administrator notified that spill clean-up can not be accomplished within 24 hours?  
\_\_\_\_\_ Yes \_\_\_\_\_ No

8. Does the secondary containment system include one (or more) of the following devices:

a. Liner (External to the tank)?

☒ Yes ☐ No

☐ Yes ☒ No

If yes, is it:

i. Designed or operated to contain 100 percent of the capacity of the largest tank?

☐ Yes ☐ No

ii. Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system (unless the collection system is sufficient)?

☐ Yes ☐ No

iii. Free of cracks or gaps?

☐ Yes ☐ No

iv. Designed and installed to completely surround the tank and to cover all surrounding earth likely to come in contact with the waste (if released)?

☐ Yes ☐ No

b. Vault?

☒ Yes ☐ No

If yes, is it:

i. Designed or operated to contain 100 percent of the capacity of the largest tank?

☒ Yes ☐ No

ii. Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system (unless the collection system is sufficient)?

☒ Yes ☐ No

iii. Constructed with chemical-resistant water stops in place at all joints (if any)?

☒ Yes ☐ No

iv. Provided with an impermeable interior coating or lining that is compatible with the stored waste?

☒ Yes ☐ No

v. Provided with a means to protect against the formation of an ignition of vapors within the vault?

☒ Yes ☐ No

c. Double-walled tank?

☒ Yes ☐ No

If yes, is it:

i. Designed as in integral structure so that any release from the inner tank is contained by the outer shell?

☒ Yes ☐ No

- ii. Protected (if constructed with metal) from both corrosion of the primary tank interior and the external surface of the outer shell? NA  
\_\_\_\_ Yes \_\_\_\_ No
- iii. Provided with a built-in leak detection system capable of detecting a release within 24 hours or earliest practical time?  
☒ Yes \_\_\_\_ No
- d. An equivalent device approved by the Regional Administrator?  
\_\_\_\_ Yes ☒ No
9. Is the ancillary equipment provided with a secondary containment system (e.g. trench, jacketing, double-walled piping)?  
☒ Yes \_\_\_\_ No
10. Has the owner/operator obtained a secondary containment variance from the Regional Administrator?  
\_\_\_\_ Yes ☒ No

General Operating Requirements (40 CFR 265.194)

1. Is there evidence that hazardous waste has caused a tank or ancillary equipment to rupture, corrode, or cause leakage of the tank or ancillary equipment?  
\_\_\_\_ Yes ☒ No
2. Does the owner/operator use appropriate controls and practices to prevent spills and overflows from the tank or secondary containment system (i.e. spill prevention controls, maintenance of freeboard)?  
☒ Yes \_\_\_\_ No

Inspections (40 CFR 265.195)

1. Does the owner/operator inspect the following at least daily:
- a. Overfill/spill control equipment?  
\_\_\_\_ Yes ☒ No
- b. Aboveground portions of tank system (if applicable) to detect corrosion or releases of waste?  
☒ Yes \_\_\_\_ No
- c. Data gathered from monitoring and leak detection equipment to ensure that the tank is being operated according to design?  
☒ Yes \_\_\_\_ No
- d. Construction materials and the area immediately surrounding the external accessible portions of tank system?  
☒ Yes \_\_\_\_ No

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FACILITY NAME: Western Currency Facility

EPA ID NUMBER: TX1200939626

2. Have cathodic protection systems been inspected and confirmed to be working properly within 6 months after initial installation and annually thereafter? ☒ Yes ☐ No
3. Are all sources of impressed current inspected and/or tested at least bimonthly? ☒ Yes ☐ No
4. Is this information documented in the operating record? ☒ Yes ☐ No

Response to Leaks/Spills and Disposition of Leaking or Unfit for Use Tank Systems  
(40 CFR 265.196)

1. Have any tank systems or secondary containment systems had a leak or spill, or been determined to be unfit for use? ☐ Yes ☒ No
- If no, go to Closure Section of this checklist.
- If yes,
- a. Was the flow restricted from entering the tank system or secondary containment system? ☐ Yes ☐ No
- b. Was a visual inspection conducted and were measures taken to prevent further migration of the leak or spill onto soil/surface water? ☐ Yes ☐ No
- c. What was the type and quantity of waste spilled? ☐ Yes ☐ No
- d. Was the spill contained and cleaned immediately? ☐ Yes ☐ No
2. Were all spills of greater than one pound of hazardous waste which were not immediately contained and cleaned up reported to the Regional Administrator within 24 hours? ☐ Yes ☐ No
3. Have there been any releases to the environment? ☐ Yes ☒ No
- If yes,
- a. Has the owner/operator made the appropriate report to the Regional Administrator? ☐ Yes ☐ No
4. Was the release to the environment from a component of a tank system which had no secondary containment? ☐ Yes ☐ No
- If yes,
- a. Was secondary containment provided prior to returning that component to service? ☐ Yes ☐ No

EPA ID NUMBER: TX1200939626

5. Has the owner/operator made extensive repairs to the tank system?

     Yes      No

If yes,

- a. Has a certification from an independent, qualified registered professional engineer stating that the repaired system is capable of handling hazardous wastes without releases for the intended life of the system?

     Yes      No

- b. Has this certification been sent to the Regional Administrator within 7 days after returning the tank system to use?

     Yes      No

Closure and Post-Closure Care (40 CFR 265.197)

1. Does the closure plan address the closure of all tanks and ancillary equipment?

     Yes      No

[In addition, the Closure Checklist must be completed]

Special Requirements for Ignitable or Reactive Wastes (40 CFR 265.198)

1. Have ignitable or reactive wastes been placed in tank systems?

  ✓   Yes      No

If yes,

- a. Has the waste been treated, rendered, or mixed before or immediately after placement in tank systems to no longer meet the definition of ignitable or reactive waste?

     Yes      No

OR

- b. Has the waste been stored or treated such that it is protected from any material or condition that might cause it to ignite?

     Yes      No

OR

- c. Is the tank used solely for emergencies?

  ✓   Yes      No

- d. Does the tank meet the distance requirements from public ways (streets, alleys, adjoining property line) according to the chart in Table 2-1 through 2-6 of the National Fire Protection Association?

  ✓   Yes      No

FACILITY NAME: Western Currency FacilityEPA ID NUMBER: TX1200939626*Not applicable*  
Special Requirements for Incompatible Wastes (40 CFR 265.199)

1. Are incompatible wastes placed in tank systems? Yes ☒ No

If yes,

- a. Are wastes handled in such a way as to generate extreme heat, pressure, fire, explosion, violent reaction or any means to threaten human health or the environment?

Yes No

2. Has the tank been decontaminated prior to placing an incompatible waste in it?

Yes No *Has not been necessary**Not applicable*  
Waste Analysis and Trial Tests (40 CFR 265.200)

1. Does the owner/operator conduct waste analyses and trial treatment or storage tests when the tank system is used to store or treat a hazardous waste which differs from the previous waste?

Yes No

2. Did the owner/operator obtain written, documented information on similar waste under similar operating conditions to show that the proposed treatment or storage will meet general operating requirements?

Yes NoSmall Quantity Generators (SOG) (40 CFR 265.201)

1. Does the owner/operator generate between 100 and 1000 kg of hazardous waste per month?

Yes No

If no, do not complete this section.

If yes,

- a. Does the operator take precautions to prevent accidental ignition or reactions of ignitable or reactive wastes?

Yes No

- b. Have hazardous wastes or treatment reagents caused the tanks or inner liner to rupture, leak, or corrode?

Yes No

- c. Does the tank have at least 60 cm of freeboard, unless the tank is equipped with a containment structure?

Yes No

- d. Are wastes stored in tanks greater than 180 days?

Yes No

FACILITY NAME: Western Currency FacilityEPA ID NUMBER: TX1200939626

If yes,

- i. Is the disposal site greater than 200 miles?

\_\_\_ Yes \_\_\_ No

If no,

- ii. Has the owner/operator applied for interim status?

\_\_\_ Yes \_\_\_ No

- e. Are wastes stored in tanks greater than 270 days?

\_\_\_ Yes \_\_\_ No

If yes,

- i. Has the owner/operator applied for interim status?

\_\_\_ Yes \_\_\_ No

- f. Does the tank have an automatic waste feed cutoff system or stand-by tank to stop inflow?

\_\_\_ Yes \_\_\_ No

- g. Does the generator inspect the tanks for the following conditions:

\_\_\_ Yes \_\_\_ No

- i. discharge control equipment?

\_\_\_ Yes \_\_\_ No

- ii. data gathered from monitoring equipment at least once each operating day to ensure that the tank is being operated according to design?

\_\_\_ Yes \_\_\_ No

- iii. Level of waste in tank?

\_\_\_ Yes \_\_\_ No

- h. Construction materials and immediate surrounding area to detect leaks?

\_\_\_ Yes \_\_\_ No

2. Are reactive or ignitable wastes being stored in tanks?

\_\_\_ Yes \_\_\_ No

If yes, complete Special Requirements for Ignitable or Reactive Wastes Section of this checklist.

CST-01

# DEPARTMENT OF THE TREASURY

BUREAU OF ENGRAVING AND PRINTING

WASHINGTON, D.C. 20228

Office of Engineering

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**July 22, 1998**

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**PHONE:** (817) 847-3614

**FAX:** (817) 847-3651

**FROM:** Dan Carver

**PHONE:** (202) 874-2101

**FAX:** (202) 874-3066

**SUBJECT:** Phase III Project, Underground Storage Tank – Submittal #35

No. of pages (including cover sheet): 24

# Ed A. Wilson, Inc. General Contractors

Phone: (817) 926-0231  
(817) 429-0461 Metro  
Fax: (817) 926-0691  
(817) 429-4125 Metro

2704 Lipscomb  
P.O. Box 11423  
Fort Worth, Texas 76110

To: Lockwood Greene  
4201 Spring Valley Road  
Suite 1500  
Dallas, Texas 75244

Date: 6/21/94  
Attention: J.R. Smith  
Re: TEP-92-24 (TN) P.O. 294-02003  
Task # 12 PHASE III EXPANSION  
LG Project # 98416.01

Transmittal No. 35/15600-1

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☒ Submittals sent to Architect/Engineer

By Henry David Date 6/21/94

ARCHITECT/ENGINEER

☐ Approved (stamped, signed and dated)  
☐ Approved as noted (stamped, signed and dated)  
☐ Disapproved, resubmit (returned to contractor)  
☐ Submittals sent to Bureau of Engraving and Printing

By \_\_\_\_\_ Date \_\_\_\_\_

BUREAU OF ENGRAVING  
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☐ Field copy and master file retained  
☐ Submittals returned to Contractor

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	DATE
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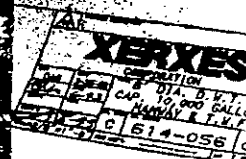
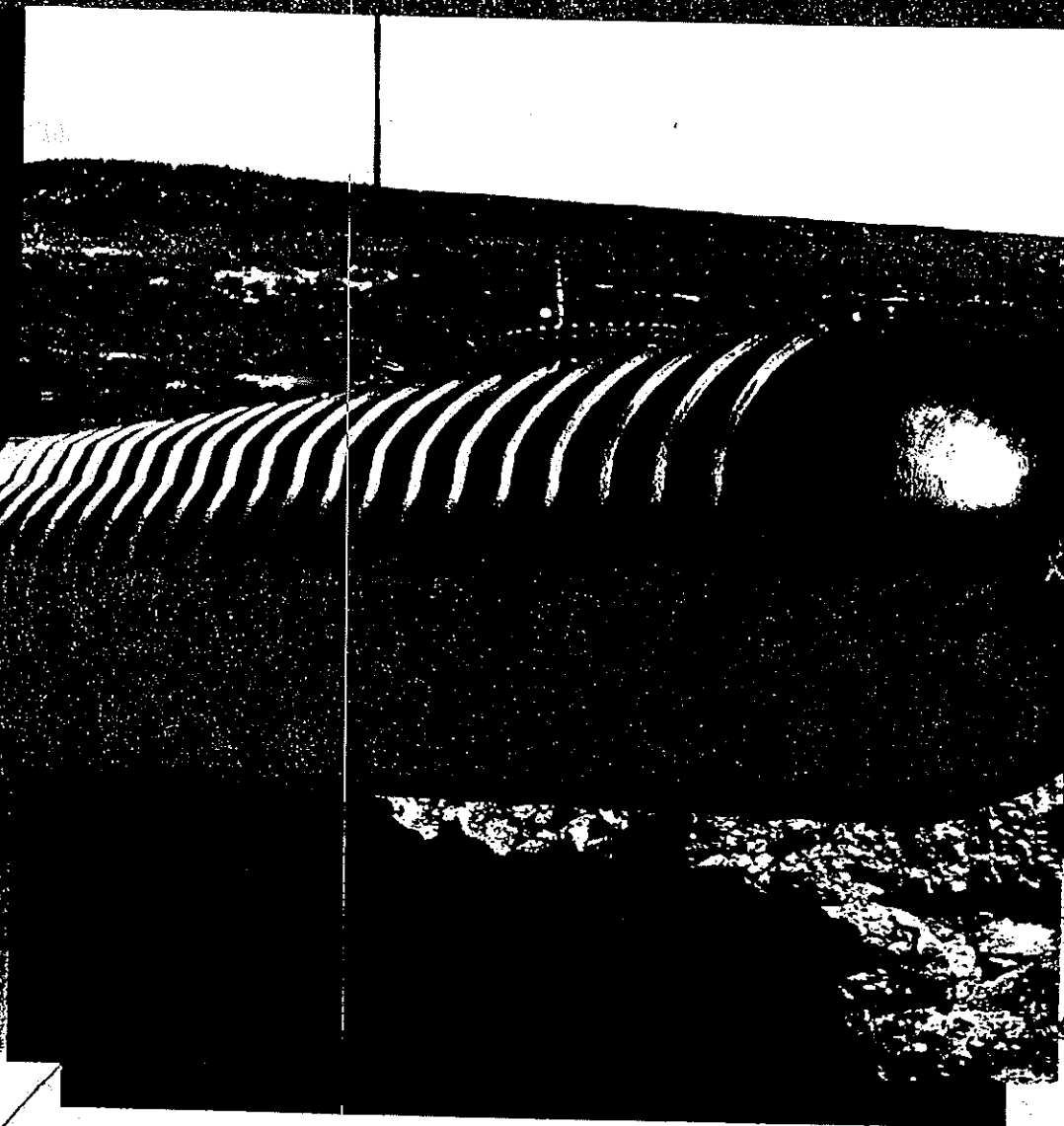
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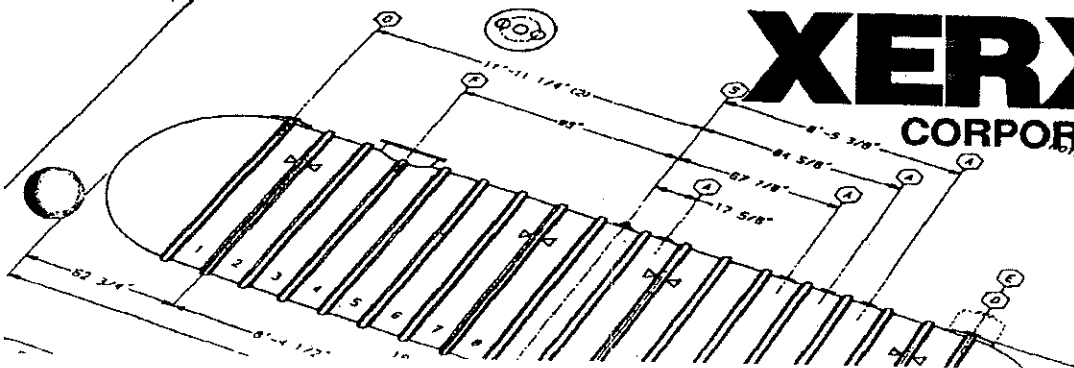
0 UNDERGROUND STORAGE TANKS

A

# Double Wall Fiberglass Underground Storage Tanks



**XERXES®**  
CORPORATION

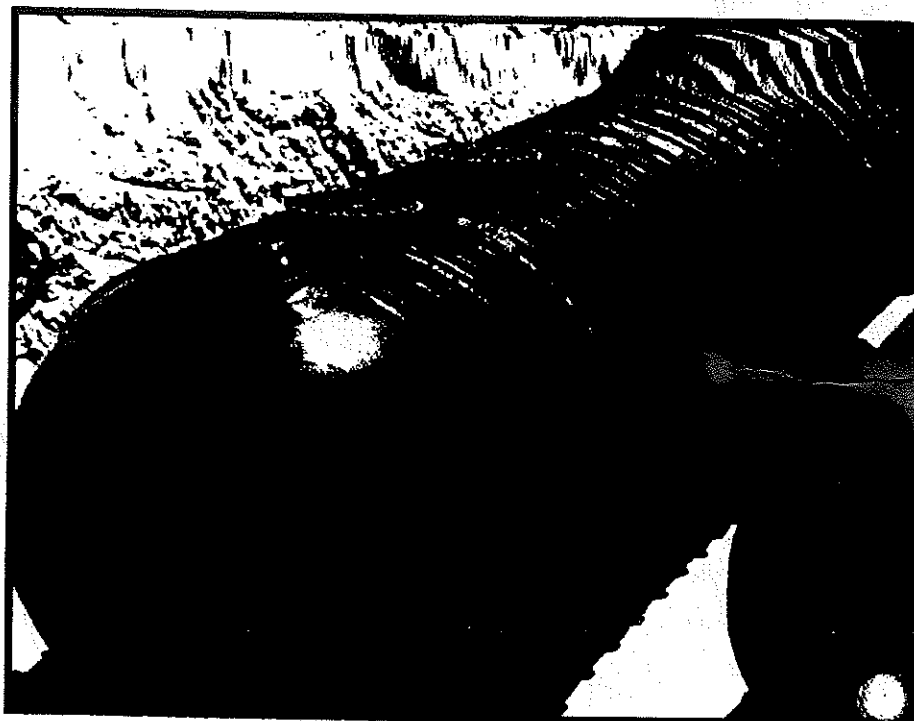


NOTE: 1 - AN OPTIONAL 18\"/>

# XERXES® Double Wall Fiberglass Underground Storage Tanks

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## Xerxes Fiberglass Tanks ... for Today and Tomorrow

Xerxes' commitment to quality is the foundation of the strong, long-lasting relationships we share with our customers. Unlike less durable goods, Xerxes tanks must perform up to standards for decades.

Xerxes is headquartered in Minneapolis, Minnesota, and operates more manufacturing facilities in the U.S. than any other single underground storage tank (UST) manufacturer. Our six strategically located plants allow us to provide prompt delivery and quality service, both economically and efficiently, to any location.

We believe – literally and figuratively – in going the extra mile for our customers.

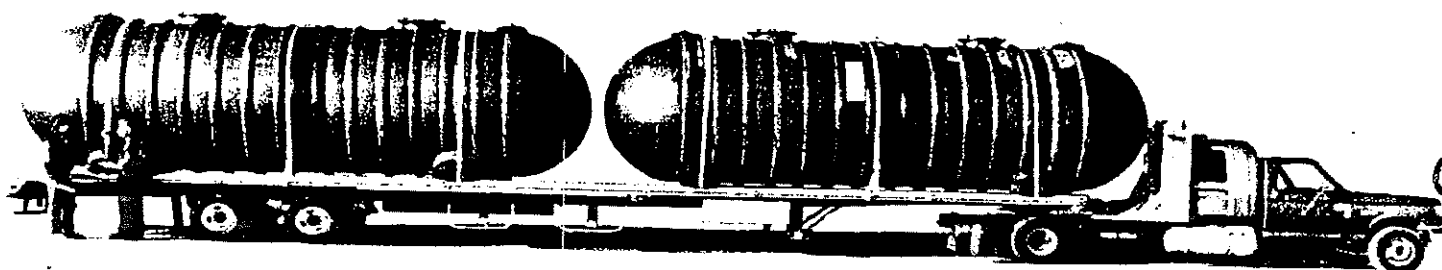
Indeed, it is our commitment to customer satisfaction and quality products that makes Xerxes the first choice in underground fiberglass storage – for today and for tomorrow.

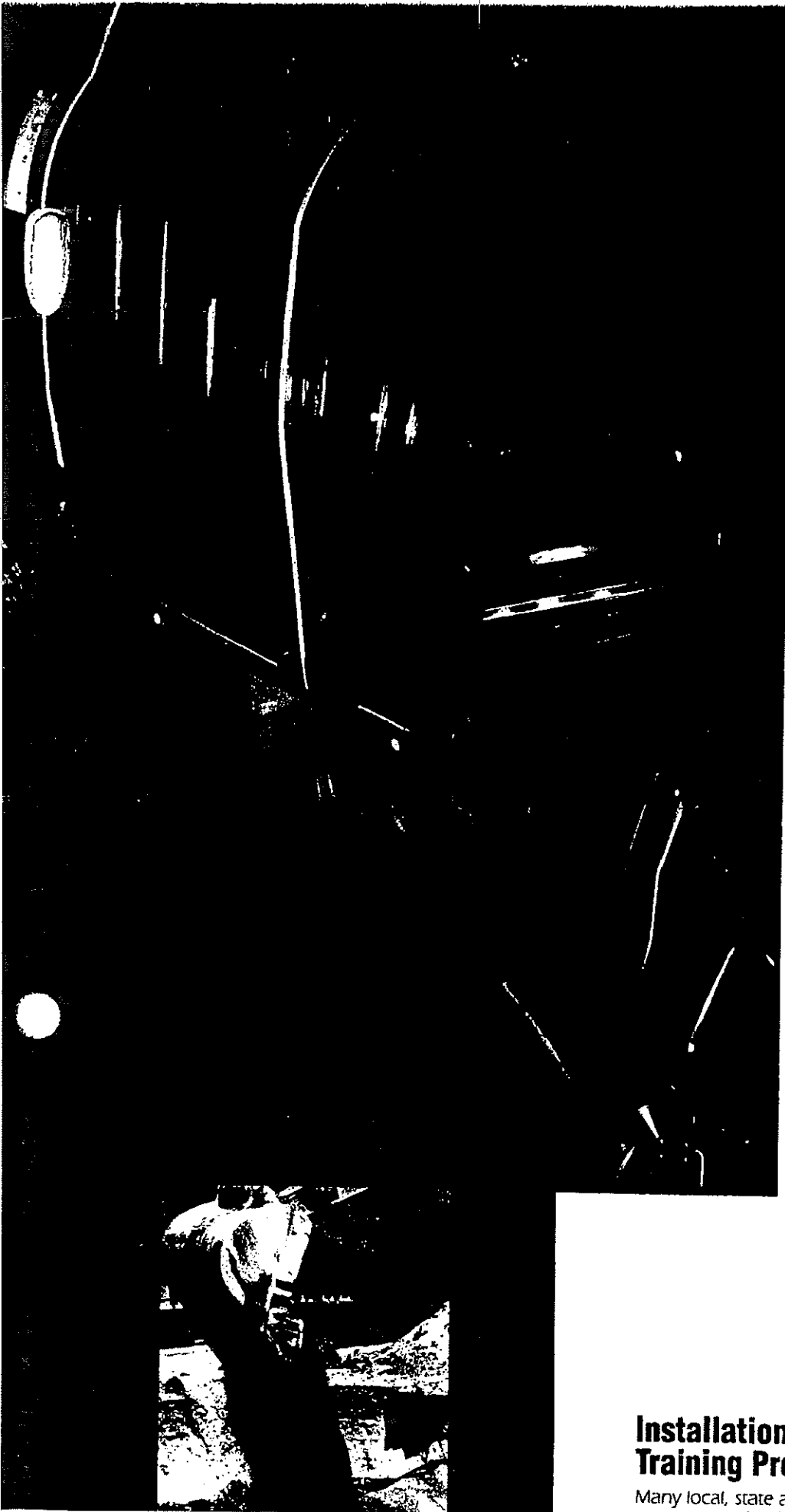
## Long History of Fiberglass Tanks

After years of installing bare steel underground storage tanks for gasoline and diesel fuel, corporations discovered – in the early 1960s – that the leakage from steel tanks – because of rust both inside and outside – caused environmental problems. Since the mid 1960s, rust-proof fiberglass underground storage tanks have provided a reliable option for safe containment of petroleum fuel products.

Xerxes Corporation has been a pioneer in developing, manufacturing and marketing fiberglass tanks for the underground storage of these products, as well as various types of water and approved chemicals, since the early 1970s.

Today, a large percentage of UST's sold in the U.S. are made of fiberglass. More than 300,000 tanks have been installed and more than 90 percent of major retail marketers specify fiberglass tanks exclusively.





### THE XERXES MISSION STATEMENT

Xerxes Corporation is a leading producer of fiberglass structural products for the industrial and commercial marketplace. Our efforts are dedicated to providing high-quality, competitively priced products that satisfy all the requirements of our customers. Xerxes is committed to a philosophy of continual improvement of our products, services, processes and personnel in order to serve our customers, suppliers, employees and stockholders.

## Product Line Expands as Environmental Codes Change

Many local, state and federal agencies require that underground storage systems have secondary-containment features for maximum protection of underground-water supplies. Today, the American Petroleum Institute also recommends secondary containment systems in environmentally sensitive areas.

Xerxes manufactures and markets both single wall and double wall tanks, giving customers the option to fit their specific storage needs. When required by law and to assure the maximum level of containment protection, double wall fiberglass tanks offer the most cost-effective option.

## Installation Contractor Training Program

Many local, state and federal agencies, as well as many tank owners, require that LIST installers are trained in the proper



owners, require that UST installers be trained in the proper techniques of underground storage tank installation. Whether or not it is required, Xerxes believes that trained, professional individuals are the key to proper installation and the successful life of a UST system.

Therefore, Xerxes Corporation offers training in the proper installation of our fiberglass tanks. This training – through lecture, videotapes, visual aids and discussion – includes pre-installation handling and testing, backfill material selection, excavation parameters, proper installation techniques and requirements and methods for anchoring and ballasting tanks.

# THE XERXES DWT-II DOUBLE

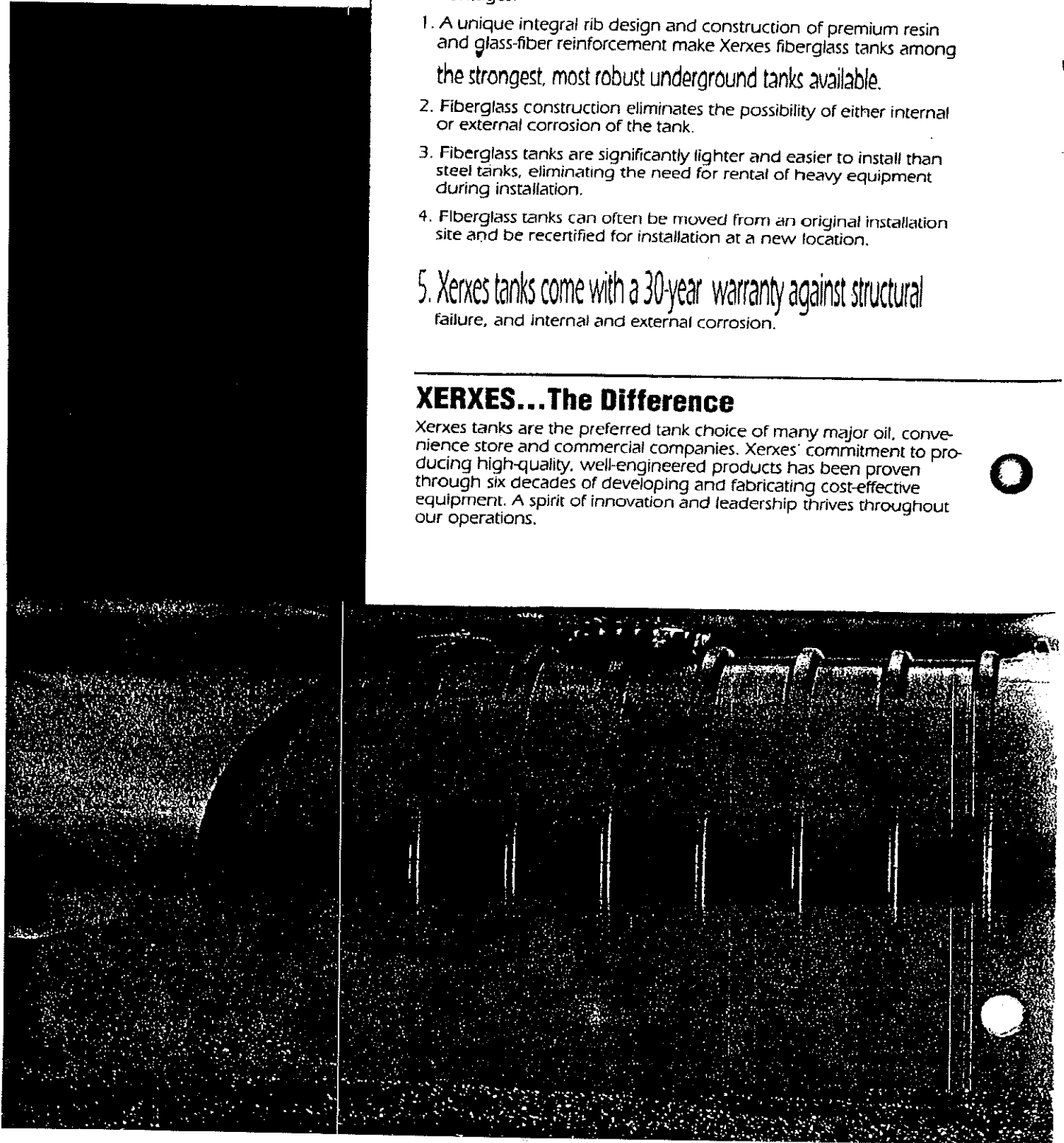
## Why Xerxes Fiberglass Tanks?

Xerxes fiberglass underground storage tanks offer a number of advantages:

1. A unique integral rib design and construction of premium resin and glass-fiber reinforcement make Xerxes fiberglass tanks among the strongest, most robust underground tanks available.
2. Fiberglass construction eliminates the possibility of either internal or external corrosion of the tank.
3. Fiberglass tanks are significantly lighter and easier to install than steel tanks, eliminating the need for rental of heavy equipment during installation.
4. Fiberglass tanks can often be moved from an original installation site and be recertified for installation at a new location.
5. Xerxes tanks come with a 30-year warranty against structural failure, and internal and external corrosion.

## XERXES...The Difference

Xerxes tanks are the preferred tank choice of many major oil, convenience store and commercial companies. Xerxes' commitment to producing high-quality, well-engineered products has been proven through six decades of developing and fabricating cost-effective equipment. A spirit of innovation and leadership thrives throughout our operations.



# WALL TANK...The Right Choice.

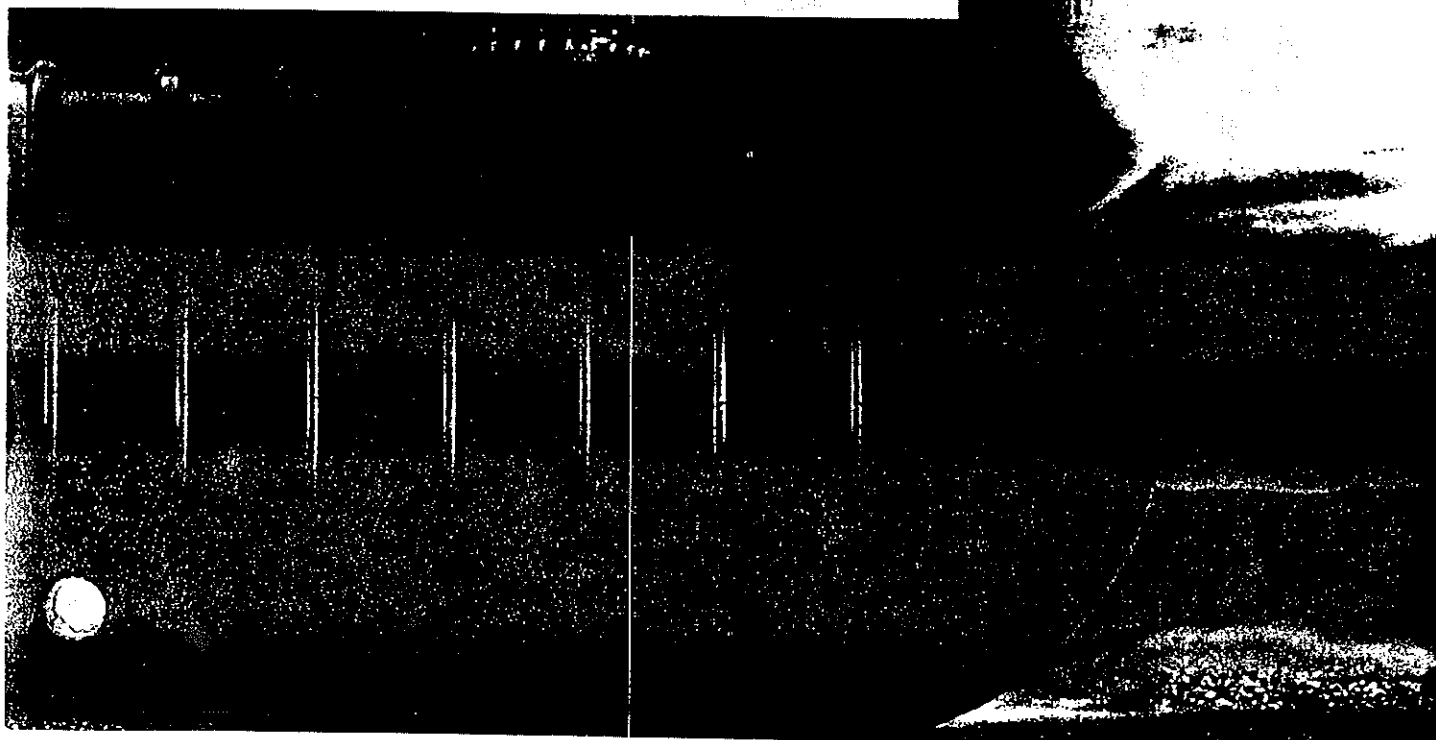
## Why Double Wall Tanks?

Several factors lead companies and consumers to choose double-wall underground storage tanks, whether or not they are required by law to do so:

1. Xerxes fiberglass double wall tanks are rust-proof, maintenance-free and formulated to be compatible with all petroleum fuel products, alcohols and alcohol-gasoline mixtures.
2. Two walls of protection allow for maximum security – in the unlikely event of a leak in the primary wall.
3. Xerxes tanks offer a full 360-degree secondary containment. Unlike other types of double-wall or jacketed tanks, the secondary containment can be pressure tested at the installation site both prior to and after installation.
4. Various types of monitoring devices can be installed in the interstitial space inherent in double wall tanks. With Xerxes' TRU-CHEK® Hydrostatic Monitoring System, owners/ users are able to conduct a tank tightness test that meets EPA criteria and has Underwriters Laboratories third-party verification.

Xerxes engineers were the first to utilize integrally constructed ribs in fiberglass tanks for added tank strength. We were also the first to manufacture a Underwriters Laboratories (UL) listed fiberglass double wall tank and provide a factory-brine-filled tank system. Through innovative technologies, as well as extensive research and development, Xerxes remains at the forefront of the underground storage tank industry.

That is the real difference.



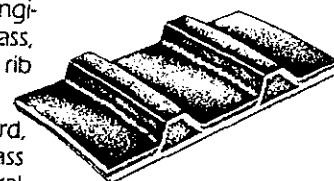
# Quality materials and all fuels compatibility mean decades of worry-free service.



## Unique Fiberglass Design and Construction

Xerxes DWT-II double wall tanks are manufactured of highly engineered premium resin and glass, and feature a unique integral rib design.

Like fluting in corrugated board, the integral ribs in our fiberglass tanks add strength. The integral ribs and tanks are made of the same material and are manufactured simultaneously, thus ensuring an extremely strong and durable product.



## All Alcohol Fuels Compatible

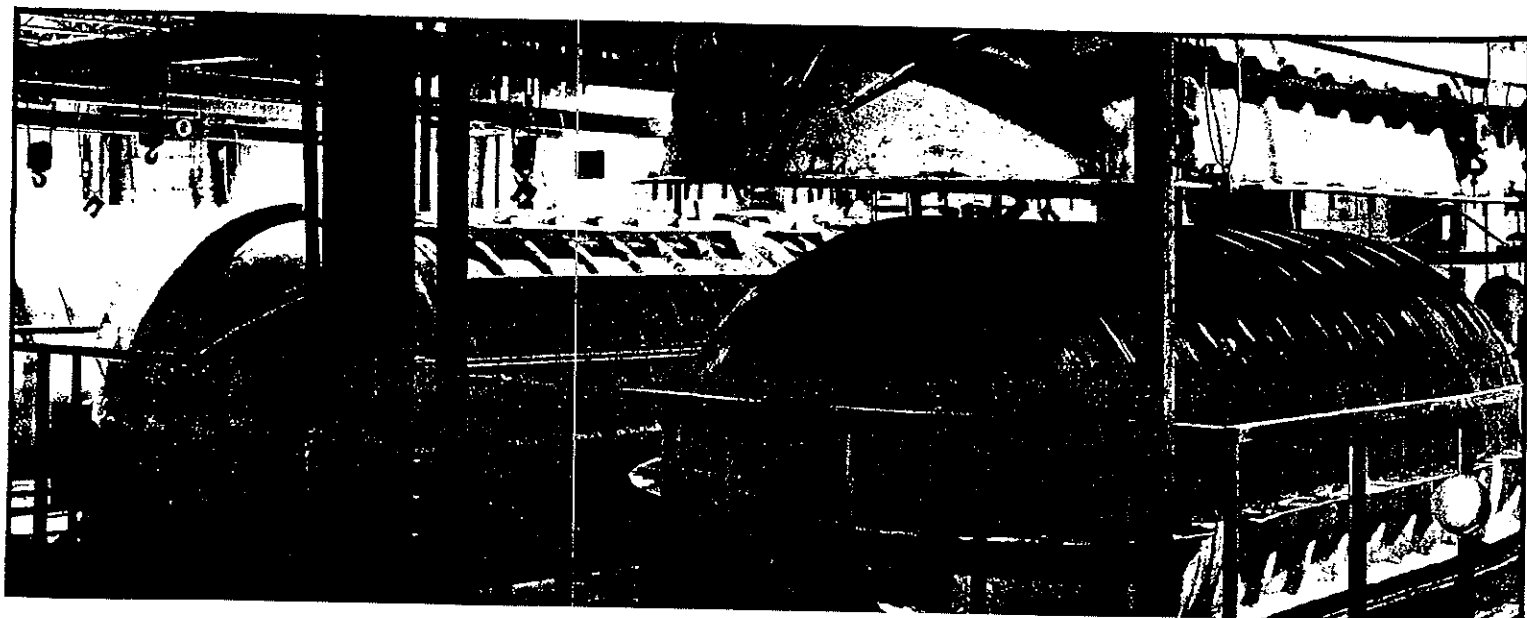
All Xerxes DWT-II double wall tanks are manufactured with premium-resin and glass-fiber reinforcement formulated to be compatible with all petroleum products, alcohols and alcohol-gasoline mixtures.

## Stringent Performance Standards

Every Xerxes DWT-II double wall tank is vacuum tested at the factory to 11.5 inches of mercury, a far greater vacuum than any other tank manufacturer. In addition, each Xerxes tank is subjected to a 5 psig air/soap test, ultrasonic-thickness verification and a barcol-hardness test. Xerxes' standards meet or exceed those required by Underwriters Laboratories and ensure that every Xerxes tank is a superior investment.

## Internal and External/Corrosion Protection


Fiberglass tanks are made of corrosion-resistant materials and – unlike steel tanks – never rust. They require no anodes or any type of cathodic protection and – unlike steel tanks – are maintenance-free. While coating a steel tank and adding anodes to the outside of it can sometimes delay the corrosion process, it does not change steel's natural tendency to rust. Even properly working cathodic protection does not guard against internal corrosion.

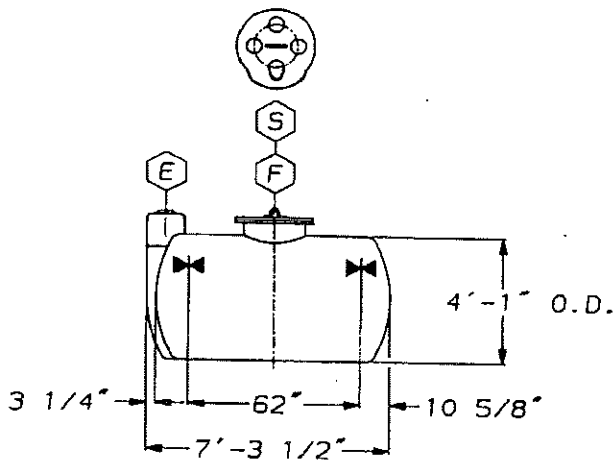


# Dimensional Data — Standard Double Wall Tanks

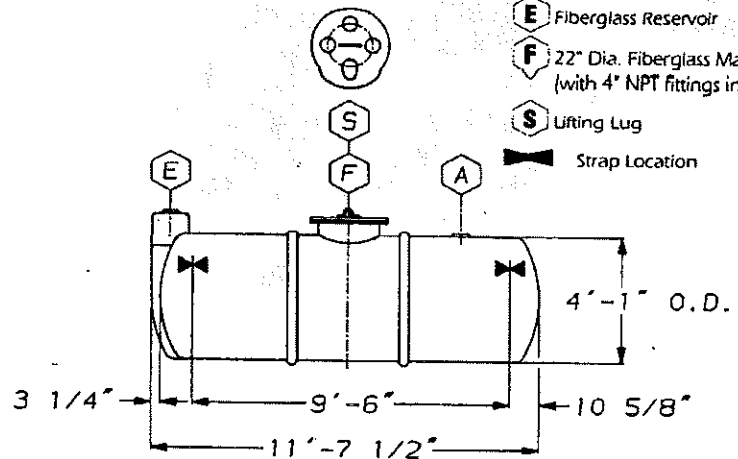
## 4' Diameter Tanks

### Symbol Identification

- A** 4" NPT Shell Wall Service Fitting
- E** Fiberglass Reservoir
- F** 22" Dia. Fiberglass Manway (with 4" NPT fittings in cover)
- S** Lifting Lug
-  Strap Location




600 Gallons



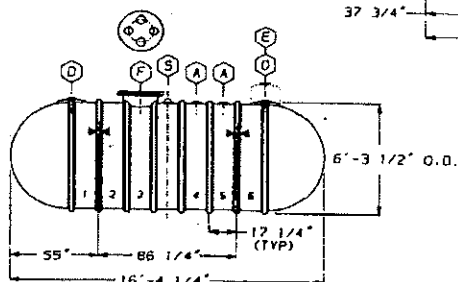
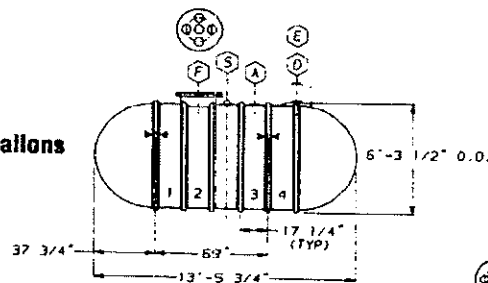
1,000 Gallons

## 6' Diameter Tanks

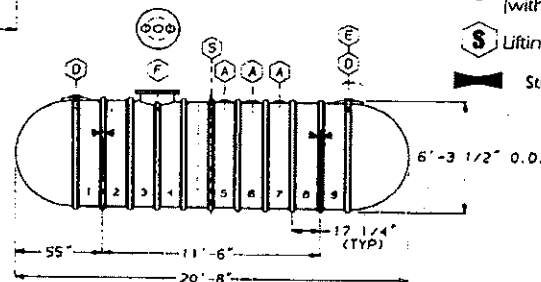
### Symbol Identification

- A** 4" NPT Shell Wall Service Fitting
- D** 4" NPT Monitor Fitting
- E** Optional Fiberglass Reservoir (must be ordered separately)
- F** 22" Dia. Fiberglass Manway (with 4" NPT fittings in cover)
- S** Lifting Lug
-  Strap Location

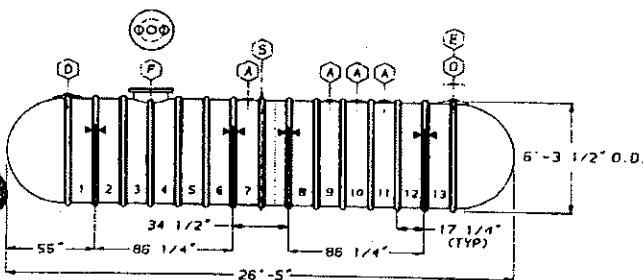
2,500 Gallons



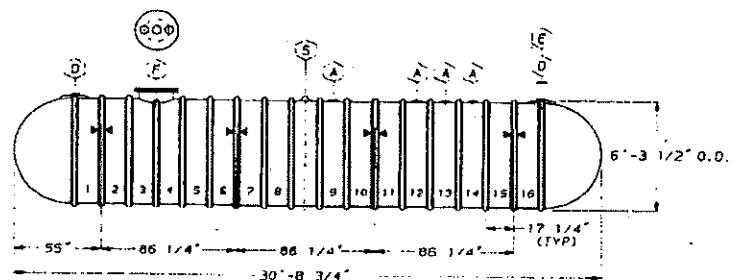
3,000 Gallons



4,000 Gallons



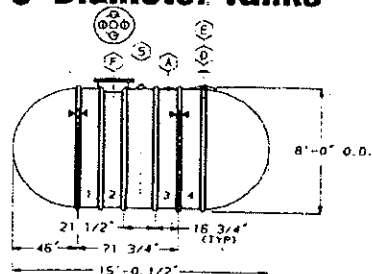
5,000 Gallons



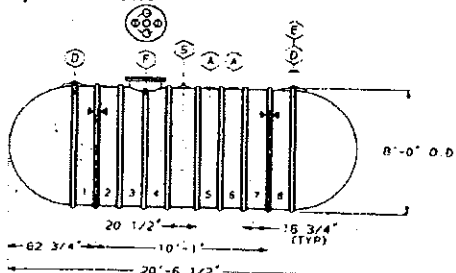
6,000 Gallons

# Dimensional Data — Standard Double Wall Tanks

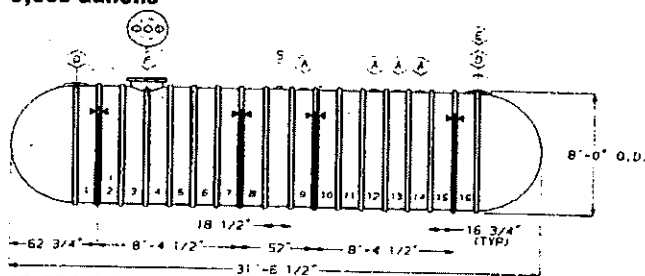
## 8' Diameter Tanks



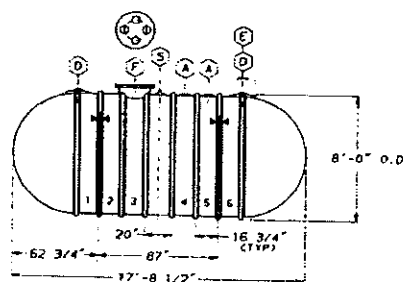
4,000 Gallons



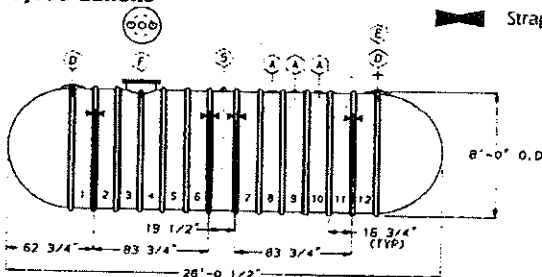
6,000 Gallons



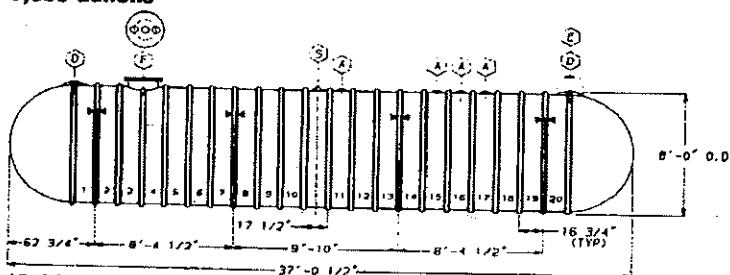
10,000 Gallons



5,000 Gallons



8,000 Gallons



12,000 Gallons

### Symbol Identification

- A** 4" NPT Shell Wall Service Fitting
- D** 4" NPT Monitor Fitting
- E** Optional Fiberglass Reservoir (must be ordered separately)
- F** 22" Dia. Fiberglass Manway (with 4" NPT fittings in cover)
- S** Lifting Lug

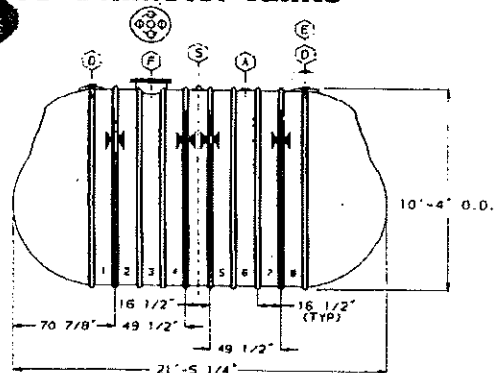
 Strap Location

## Standard Tank Data / Made-to-Order Tank Data

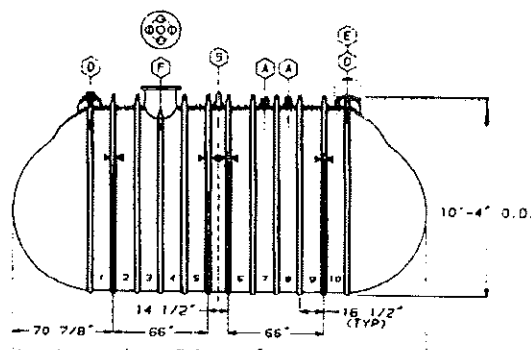
	Nominal Capacity (Gallons)	Actual Capacity (Gallons)	Nominal Diameter	Overall Length	Shipping Weight (Lbs.)	Weight With Brine (Lbs.)	Interstitial Volume (Gallons)	Number of 22" Manways	Number & Size of Service Fittings	Number of Monitor Fittings	Straps If Required
STANDARD TANKS	600	602	4'	7' 3 1/2"	900	988	16	1	4-4"	1	2
	1,000	1,009	4'	11' 7 1/2"	1,200	1,310	18	1	5-4"	1	2
	2,500	2,319	6'	13' 5 3/4"	1,570	2,098	48	1	6-4"	1	2
	3,000	2,904	6'	16' 4 1/4"	1,950	2,529	59	1	6-4"	2	2
	4,000	3,782	6'	20' 8"	2,250	3,086	76	1	6-4"	2	2
	5,000	4,952	6'	26' 5"	2,950	4,026	93	1	7-4"	2	4
	6,000	5,829	6'	30' 8 3/4"	3,010	4,220	110	1	7-4"	2	4
	4,000	4,156	8'	15' 0 1/2"	2,030	2,875	76	1	6-4"	1	2
	5,000	5,049	8'	17' 8 1/2"	2,420	3,465	95	1	6-4"	2	2
	6,000	5,998	8'	20' 6 1/2"	2,745	3,999	114	1	7-4"	2	2
	8,000	7,841	8'	26' 0 1/2"	3,460	5,132	152	1	6-4"	2	4
	10,000	9,684	8'	31' 6 1/2"	4,085	6,164	189	1	7-4"	2	4
	12,000	11,527	8'	37' 0 1/2"	4,650	7,147	227	1	7-4"	2	4
	10,000	10,369	10'	21' 5 1/4"	4,170	5,754	144	1	6-4"	2	4
	12,000	11,849	10'	24' 0 1/4"	4,950	6,787	167	1	7-4"	2	4
	15,000	14,976	10'	29' 5 3/4"	6,110	8,453	213	1	7-4"	2	4
	20,000	19,703	10'	37' 8 3/4"	8,210	11,290	280	1	7-4"	2	6
M-T-O	25,000	25,587	10'	48' 0"	16,000	32,941	1,540	(MADE TO ORDER)			8
TANKS	30,000	30,352	10'	56' 3"	18,500	38,323	1,802	(MADE TO ORDER)			10

# Dimensional Data — Standard Double Wall Tanks

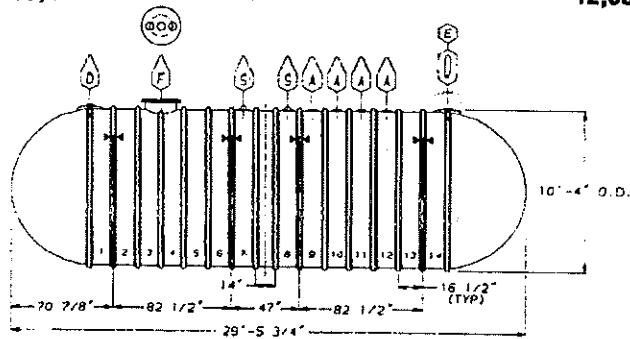
## 10' Diameter Tanks



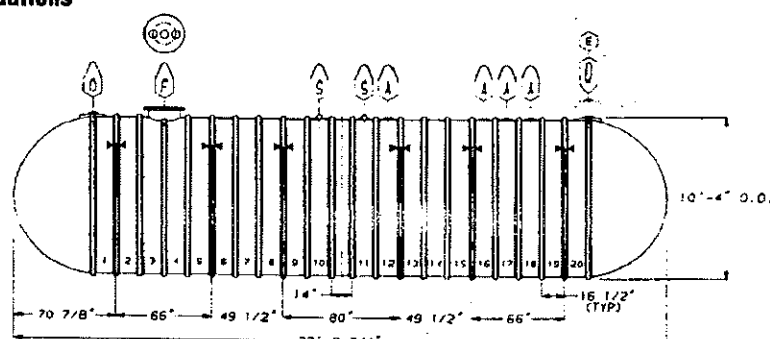
10,000 Gallons



12,000 Gallons




15,000 Gallons



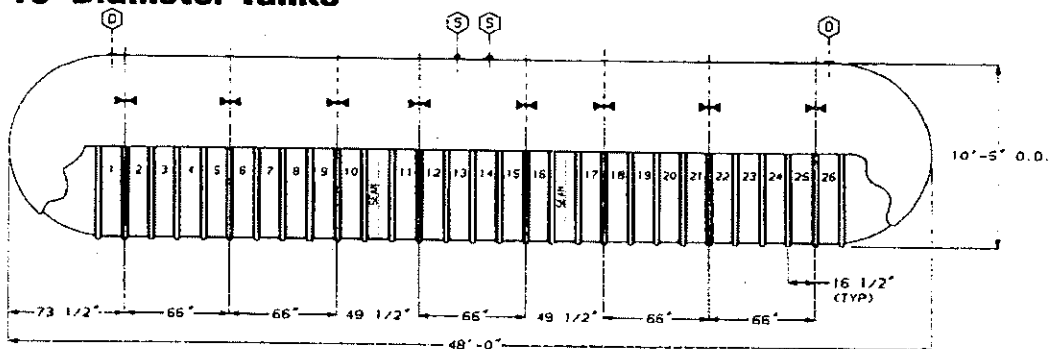
20,000 Gallons

### Symbol Identification

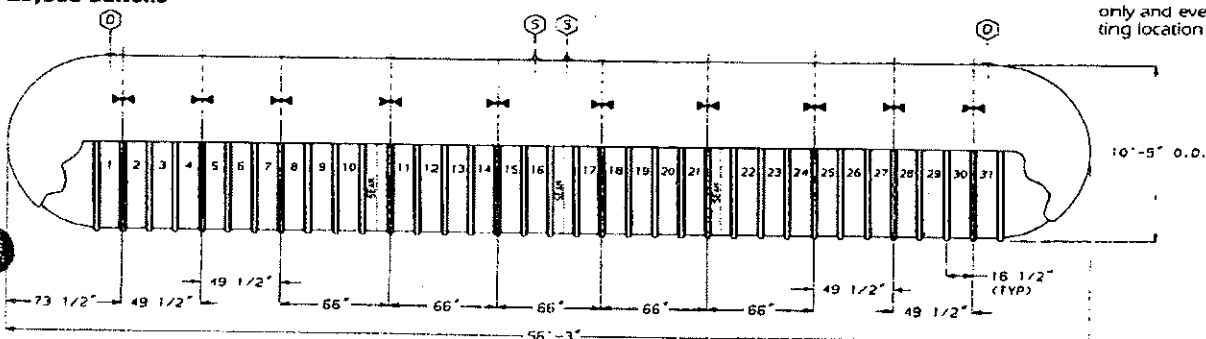
- A** 4" NPT Shell Wall Service Fitting
- D** 4" NPT Monitor Fitting
- E** Optional Fiberglass Reservoir (must be ordered separately)
- F** 22" Dia. Fiberglass Manway (with 4" NPT fittings in cover)
- S** Lifting Lug
-  Strap Location

## Dimensional Data — Made-to-Order Double Wall Tanks

### 10' Diameter Tanks




25,000 Gallons



30,000 Gallons

### Symbol Identification

- D** 4" NPT Monitor Fitting
- S** Lifting Lug
-  Strap Location

### NOTE:

These two tanks are made-to-order only and every manway and fitting location is to be specified.

# Optional Tank Accessories

## Standard Tank Notes

1. Tank bottom gauge/deflector plates are standard under every manway and service fitting.
2. Anchoring strap locations are indicated by arrows on each side of certain ribs. Straps are to be placed on the top of these ribs.
3. Standard service fittings to the primary tank are 4" NPT half couplings.

(Additional manways and fittings are available on made-to-order tanks.)

4. 4" monitor fittings provide access to the rib cavity and the interstice.
5. Four generic types of monitoring systems may be used with Xerxes double wall tanks. Certain restrictions may apply:

a. Hydrostatic Monitor – When a hydrostatic monitoring system is used, the level of liquid in the reservoir may be monitored to detect a leak in either the inner or outer wall of the tank. Optional reservoir sensors supplied by Xerxes are available.

b. Vacuum Monitor – When vacuum monitoring is used, a maximum of 3" mercury (1.5 psi maximum) must be maintained.

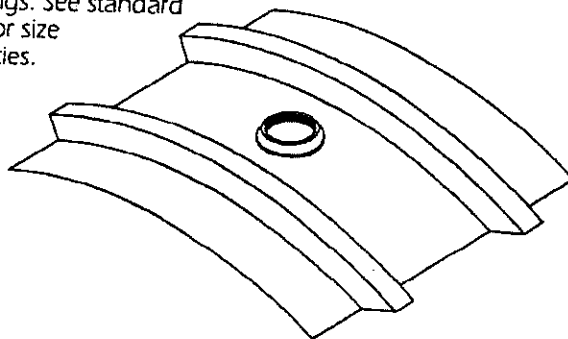
c. Liquid Sensors – When dry interstitial monitors are used, the monitor is positioned – on most models over the rib at either end of the tank. The interstice may be either vented or sealed.

d. Positive Air Pressure – When positive air-pressure monitoring is used, the maximum air pressure is 3 psi.

A

## Shell Wall Service Fitting

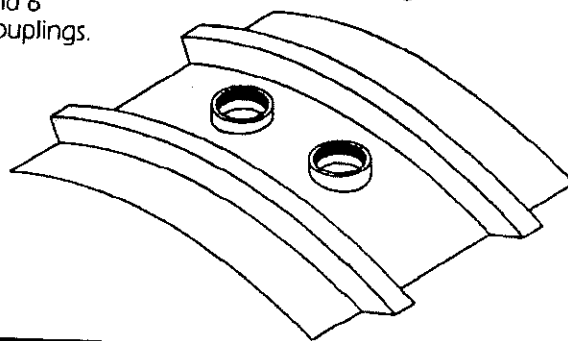
This service fitting allows access to the interior of the primary tank. Fittings through both shell walls must be located along the top centerline of the tank or the UL label will be void. They are available in 2", 4" or 6" NPT half couplings. See standard drawings for size and quantities.



B

## Duplex Shell Wall Service Fittings

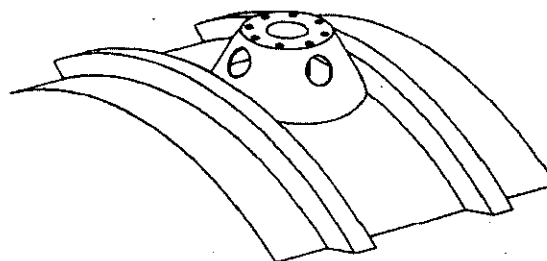
Duplex service fittings allow for the placement of two service connections in one location. Fittings are placed astride the tank's centerline in any standard fitting location. Fittings are available in 2", 4" and 6" NPT half couplings.



C

## Fiberglass Nozzle Flanged and Gusseted

Flanged and conically gusseted fiberglass reinforced plastic (FRP) nozzles are available in 2", 4", 6", and 8" diameters. The flange face matches the ANSI 150# face pattern. Mating flanges must be flat-faced. These fittings may only be placed on the top centerline of the tank.

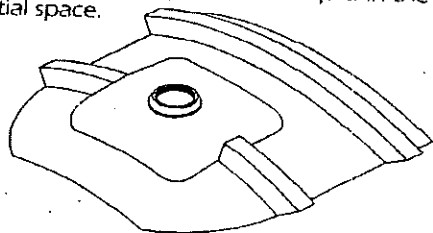


## Optional Tank Accessories

D

### Monitor Fitting

The monitoring fitting allows for the placement of probe(s) to detect the presence of liquid in the interstitial space.

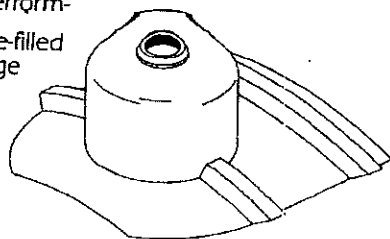


E

### Fiberglass Reservoir/Brine

Xerxes double wall tanks can be shipped with a factory brine-filled interstice, which provides a positive pressure hydrostatic monitoring system to detect a leak. This system provides continuous leak protection for both the primary and secondary walls of the tank. In addition, Xerxes TRU-CHEK® UL verified tank-tightness test can be performed

ed on all brine-filled tanks. See page 16 for more TRU-CHEK® details.



F

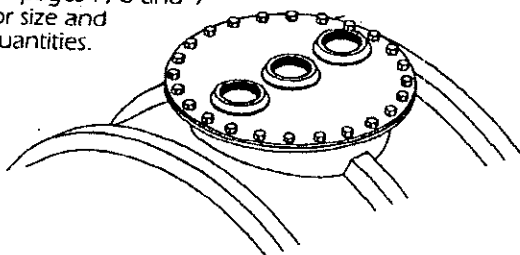
### Fiberglass Manways

Manways provide both access to the interior of the tank as well as a location for service fittings. The standard manway I.D. is 22". Manways with 30" and 36" I.D.'s are available on certain tanks.

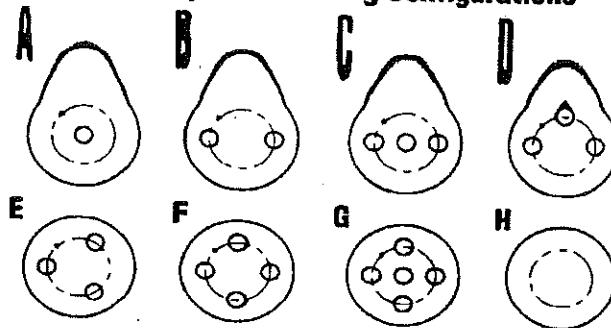
Each manway is provided with a steel cover, with plated bolts, nuts and washers, and a UL-listed gasket. Manways are placed in standard locations as shown on the standard tank drawings.

#### NPT Fittings

Steel NPT service fittings in the manway cover are available in 2", 4", 6" and 8" half couplings. See Standard Tank Data on pages 7, 8 and 9 for size and quantities.



### Typical Manway Cover Fitting Configurations



Fitting Pattern	No. of Fittings (4" NPT)	Radius from Cover Center			Spacing
		22" Manway	30" Manway	36" Manway	
A	1	Center	Center	Center	—
B	2	8"	12"	15"	—
C	3	8"	12"	15"	—
D	3	8"	12"	15"	90°
E	3	8"	12"	15"	120°
F	4	8"	12"	15"	90°
G	5	8"	12"	15"	90°
H	0	—	—	—	—

#### Notes:

- All covers are provided with a 3/8" NPT plug to bleed manways during precision tank testing.
- Standard fittings are 4" NPT forged half couplings.
- Optional 6" NPT fittings are available for use with 4" fiberglass fill tubes. The 6" fitting must be located in the center of the manway cover.
- Made-to-order covers are available upon request.
- When ordering tanks, specify manway fitting configuration.

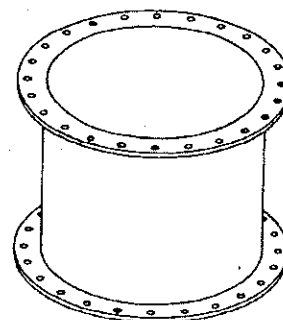
#### Bolt Hole Configurations

Manway Size	22"	30"	36"
Dia. of Cover	28"	37 1/2"	46"
Bolt Circle Dia.	26"	34 1/2"	42 3/4"
Bolt Hole Dia.	3/4"	3/4"	3/4"
Bolt Size	5/8"	5/8"	5/8"
No. of Bolts	24	30	32

G

### Fiberglass Manway Extensions

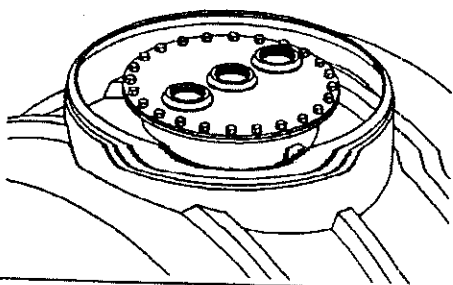
Tank entry in high groundwater conditions and/or deep burials may require manway extensions. When bolted to the manway, an extension provides a watertight access to the tank interior. Extensions are available in 22", 30" and 36" diameters, and in two foot lengths or more. Extensions include nuts, bolts, washers and a gasket.



## Optional Tank Accessories

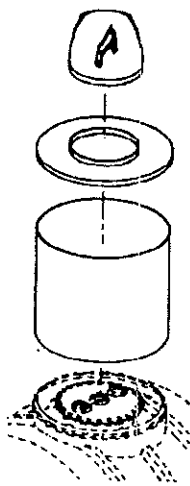
### H Attached Collar (AC)

This fiberglass attached collar, without flange, can be used to surround the fitting(s) or manway. The collar can be used with attached collar risers (as shown below in I & J). I.D.'s can be 42" or 48". Strap locations can be affected.



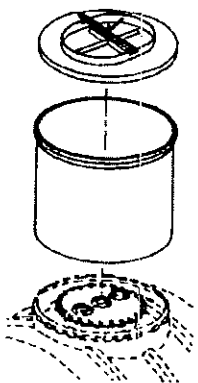
### I Attached Collar Riser (ACR)

This fiberglass attached collar riser is intended for use with a 42" or 48" diameter attached collar. (This is sold separately. See H.) Riser body is 42" or 48" I.D., with a flat top and a 22" or 32" diameter friction fit cover within top. This riser provides an enclosure for a submersible pump and also provides a termination point for double wall piping systems. The bonding of riser to collar is to be done by the contractor. (Adhesive kits are included.)



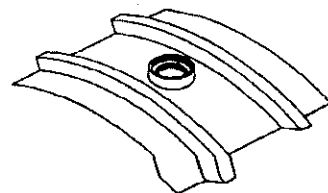
### J Watertight Attached Collar Riser (ACRWT)

This fiberglass watertight attached collar riser is intended for use with a 42" or 48" diameter attached collar. (This is sold separately. See H.) The riser body is 42" or 48" I.D. with a 24" by 30" oval opening. This provides an enclosure for a submersible pump and also provides a termination point for double-wall piping systems. The bonding of the riser to the collar and the top to the riser is done by the contractor. (Adhesive kits are included.)



### K Secondary Contained Service Fittings

Secondary contained service fittings, typically a 4" NPT within a 6" NPT, allow the tank to be connected to a secondary contained piping system.



### L Grommet Kits

When high water conditions do not exist, electrical connections and secondary piping can be field installed on an attached collar riser using optional rubber grommets.



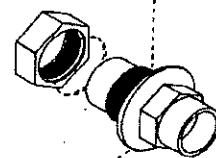
Grommets are available in the following sizes:

3/4" for 3/4" O.D. electrical conduit  
1" for 1" O.D. electrical conduit  
2", 3" and 4" for 2", 3" & 4" O.D. FRP pipe

Each kit includes six (6) grommets.

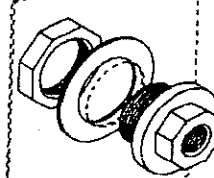
### M Fiberglass Bulkhead Coupling Kit

The 3" FRP coupling is a two-piece fitting that is bonded to the attached collar riser by the contractor. The male and female sections of the FRP coupling are threaded together to hold the fitting in place while the adhesive cures. Each kit includes one 3" FRP coupling, adhesive and instructions.



### N Electrical Bulkhead Coupling Kit

The 1" electrical coupling kit is a three-piece fitting which is bonded to the attached collar riser by the contractor. The male and female sections are threaded together to hold the electrical coupling in place while the adhesive cures. Each kit includes four 1" steel couplings, adhesive and instructions.

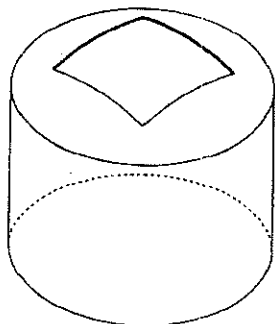


## Optional Tank Accessories



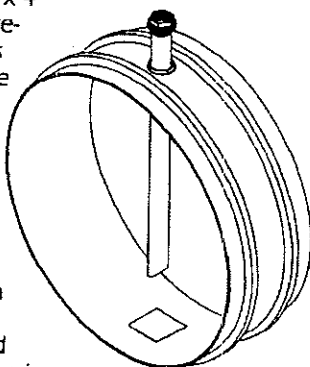
### Fiberglass Isolation Riser

The fiberglass isolation riser provides a non-corroding access from the street box down to the top of the tank. Since the bottom is open, the riser will fill with water if water surrounds the outside of the riser. This riser is available in lengths up to 6 feet in height. Only one riser is permitted with tank sizes less than 4,000 gallons, due to possible buoyant forces. A maximum of two risers may be used on tank sizes greater than 4,000 gallons.



### Fiberglass Fill Tube

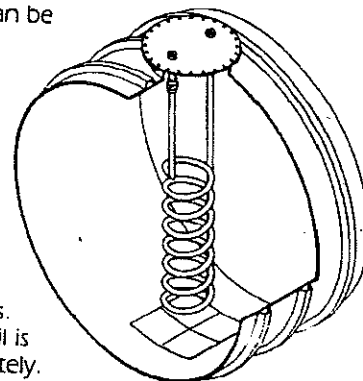
Fill tubes are screwed into the bottom of the 6" x 4" NPT double-tapped reducer bushing that is located in a 6" service fitting. The bottom of the fill tube is located 4" above the bottom of the tank with the open end slanted 45°. The top of the 4" NPT service fitting is closed with a 4" cast-iron plug to facilitate shipping and testing. A 6" NPT fitting is provided to accommodate fiberglass fill tube.



### Helical Heating Coils

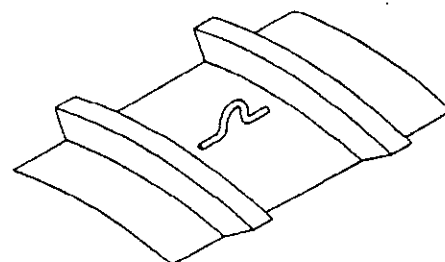
For highly viscous products such as #6 heating oil, helical heating coils are available. Attached to a heavy-duty, epoxy-painted, carbon-steel 22" I.D. manway cover, the 1 1/4" schedule 40 carbon-steel heating coil is installed to leave 9" clearance from the bottom of the tank.

Suction and return couplings, not included with the heating coil, can be installed in the manway lid. Coil area for heat calculations is 20.6 square feet. A heating coil can also be centered on 30" and 36" manway covers. The heating coil is shipped separately. For a detail drawing on the heating coil, please contact your local Xerxes representative.



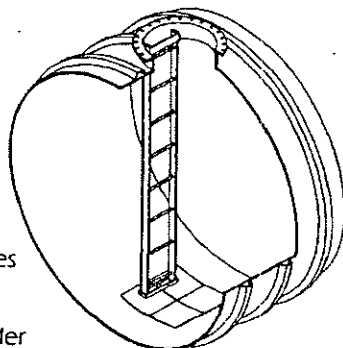
### Lifting Lugs

Each tank provided with a minimum of one lifting lug.



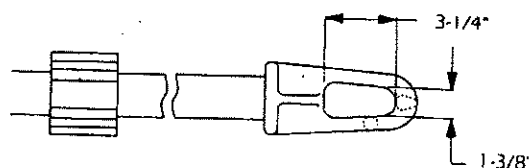
### Tank Ladders

FRP, aluminum or carbon steel ladders are attached at the tank bottom by FRP mounts and restrained at the top by an FRP bracket by the contractor to allow the ladder to float freely, which compensates for tank expansion or contraction. (Manway and ladder are sold separately.)



### Fiberglass Holddown Straps

Straps are used when a tank requires anchoring. The straps provide the link between the tank and the owner-supplied anchoring hardware. For more information on straps and their use, refer to the current Xerxes Installation Manual.

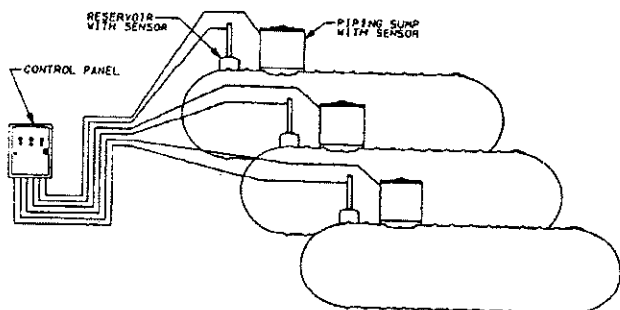


# Monitoring Systems

## Effective Hydrostatic Monitoring Systems for Xerxes Double Wall Tank

Xerxes double wall tanks may be monitored with a variety of systems. Each monitoring mode – depending on the economics of the installation – is designed to detect a leak in either the primary or secondary tank as well as the attached collar riser.

Should an installation require maximum round-the-clock monitoring of tanks and attached collar risers, the single-control unit is pre-programmed to effectively monitor up to a four-tank installation, with a four-channel control panel. (An eight-channel control panel is available as an option.)



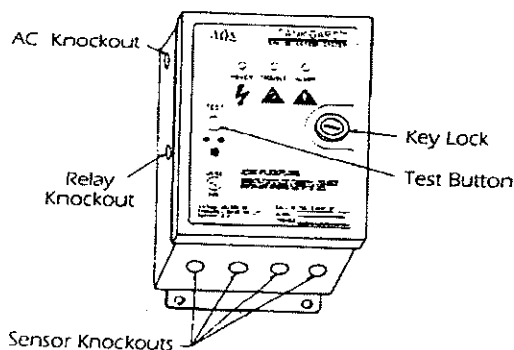
Typical three-tank installation with control panel individually monitoring the attached collar risers and tanks.

## Controller/Monitor

The control unit provides LED's (indicator lights) to show the individual operating condition of each tank and riser in the installation. The unit is also equipped with an audible alarm and may be located up to 500' from the installation.

## Control Unit (Four-Channel Panel Shown)

The controller is also equipped with a test switch to prove the system functional. The control panel is weather-resistant.

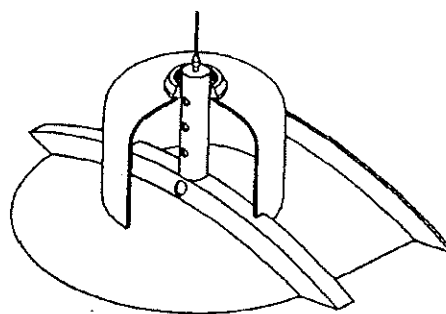


Power (green) – The system is operating properly.  
 Fault (yellow) – The system has an internal malfunction.  
 Alarm (red) – The alarm light, plus an audible warning, will indicate that one or more of the sensors is in an alarm condition.

(Eight channel unit also available.)

## Monitoring the Tank with a Reservoir Probe

The accurate monitoring of the primary and secondary tank walls is accomplished through the use of an electronic sensor and the tank-mounted hydrostatic reservoir.



With the interstitial space and reservoir factory-filled with liquid to a predetermined level, a hydrostatic pressure is applied to the inner and outer tank walls.

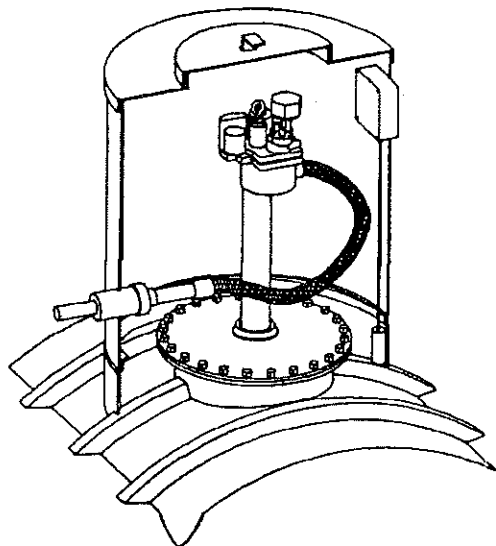
If a leak should ever occur in the inner tank, the liquid level in the reservoir will drop as monitoring fluid drains into the primary tank. Should a leak develop in the outer wall, the monitoring fluid will drain into the excavation and again lower the level of monitoring fluid. Should a leak occur in the outer wall during high-groundwater conditions, the level of the monitoring fluid will rise as outside water seeps into the interstitial space. In any of these situations, a change in the liquid level beyond the acceptable limits will activate the alarm.

The electronic monitoring system is listed by Underwriters Laboratories, Inc. The monitor probes for the reservoir and riser sensors are intrinsically safe for use in hazardous locations-Class I, Group C and D, Division 1 and 2 as defined by the National Electrical Code.

# Monitoring Systems

## Monitoring the Attached Collar Riser

The optional attached collar riser provides containment for leakage from the submersible pump. Should double wall piping be used, a leak in the primary piping will drain to the attached collar riser.



To monitor the unwanted presence of liquid inside the riser, an optional electronic sensor is mounted at a specified position on the wall of the attached collar riser. The unit permits continuous electronic monitoring through the control panel.

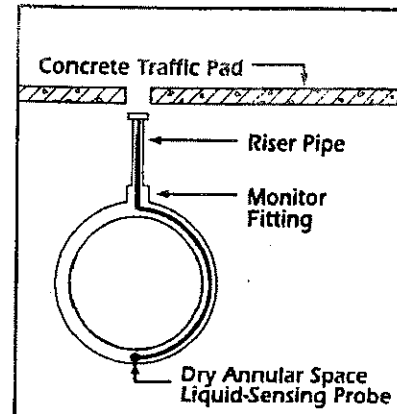
The solid-state sensor consists of a liquid-level sensing element that is activated when a liquid rises to a predetermined and unacceptable level in the riser. The level is sensed and converted to a voltage output, which in turn activates the alarm system.

## Alternative Tank-Monitoring Systems

### Liquid Sensor Monitoring Systems (Dry Annular Space)

Typical configuration for an electronic sensor or manual dipstick.

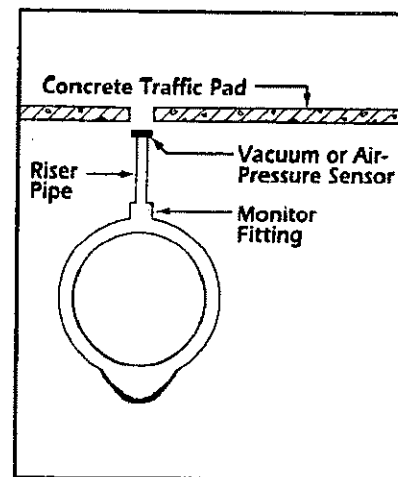
**Note:** Monitoring cavity can be vented to atmosphere or sealed.



### Vacuum and Air-Pressure Monitoring Systems (Dry Annular Space)

Notes:

1. Maximum continuous positive air pressure is 3 psi.
2. Maximum continuous vacuum is 3" mercury (1.5 PSI maximum) must be maintained.



## Installation

The manufacturer's instruction manual, covering installation, operation and maintenance of the monitoring system, is available from Xerxes sales representatives. A copy of the manual will be sent with each unit.

Note that the monitoring system must be installed in accordance with the manufacturer's instructions, and all federal, state, and local laws and regulations.



# TRU-CHEK® Monitoring System ...

## double wall protection at its best.

Xerxes DWT-II double wall tanks with the TRU-CHEK® system option are factory-filled with a brine solution in the interstice between the two tank walls. The brine also partially fills a reservoir affixed to the top of the tank. This creates a hydrostatic pressure that enables owners/users to monitor both the primary tank and the secondary tank walls.

The TRU-CHEK® system provides a simple and precise method to perform a tank-tightness test. It was developed in conjunction with Dr. Robert Plunkett, Sc.D., consulting engineer (professor emeritus), University of Minnesota. TRU-CHEK® has received third-party verification from Underwriters Laboratories.

TRU-CHEK® testing meets the EPA criteria for tank-tightness testing, which states that a test must be able to detect a leak rate of 0.1 gallon per hour from any portion of the tank that routinely contains product. The test has a 95% probability of detection (PD) and a 5% probability of false alarm (PFA). In other words, out of 100 chances, the test detects leaks 95% of the time.

The test must also account for the effects of thermal expansion or contraction of the product, vapor pockets, tank deformation, evaporation, condensation and the location of the water table.

TRU-CHEK® is capable of detecting a loss rate as small as the NFPA 329 criteria of 0.05 gallons per hour.

In addition, on extended tests, TRU-CHEK® testing offers 99% PD and 1% PFA.

### The TRU-CHEK® test offers significant benefits to the owner/operator:

1. A wide range of tank sizes can be tested, including Xerxes DWT-II tanks up to 20,000 gallons.
2. Product can be dispensed during the 95%/5% test.
3. No waiting time is required to start the test as long as a fill of new product does not vary more than 20°F from the existing product temperature.

### How continuous monitoring works

If both the inner and outer walls are tight, the reservoir level will be stable.

If there is a fracture in the inner wall (Diagram A), the brine level in the reservoir will go down. The brine level will also go down if there is a leak in the outer wall (Diagram B).

With a high-water table and "wet-hole" conditions (Diagram C), a leak in the outer wall will cause the brine level to go up if the height of the water table above the leak is 30% greater than the brine level above the leak.

See Xerxes TRU-CHEK® brochure for more details.

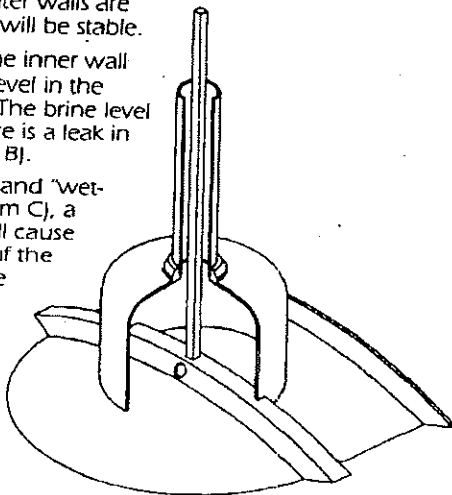


Diagram A

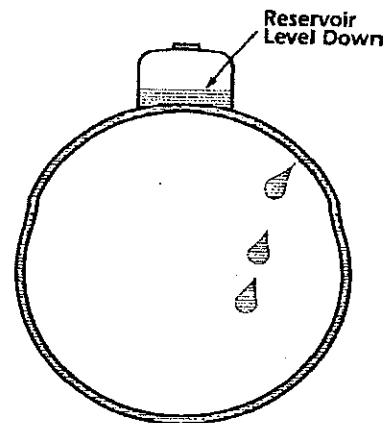


Diagram B

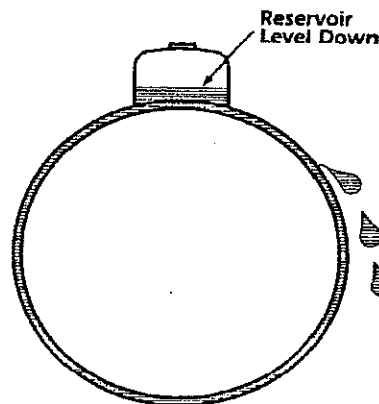
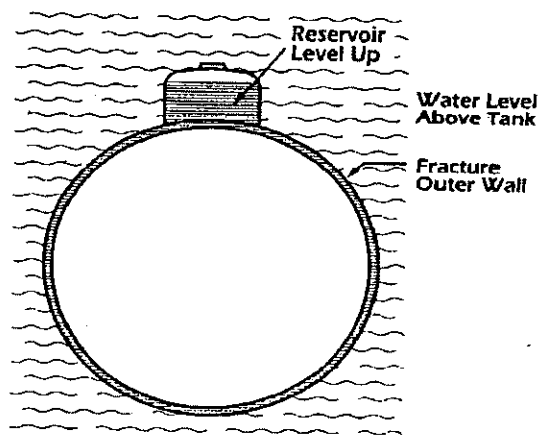


Diagram C



# Guide Specifications — Hydrostatic Monitoring

## Part I: General

- 1.0 The tank manufacturer shall supply a continuously monitored hydrostatic head pressure leak detection system. The system shall be designed by the manufacturer to detect a leak in either the primary tank or the secondary tank in either a wet or dry excavation.

The system shall include: a brine solution (to prevent freezing) delivered to the job site in the interstice of the double wall tank, a reservoir mounted on top of the tank to provide a liquid medium for monitoring, and an electronic monitoring system to sound an audible and visual alarm when the liquid level of the reservoir rises or falls to predetermined alarm points. The system shall also include an electronic sensing probe to monitor the attached collar riser for the submersible pump, if so specified.

## Part II: Standards

- 2.0 The double wall tank with a brine-filled interstice shall be listed by Underwriters Laboratories. The electronic monitoring system used to monitor the liquid reservoir and the attached collar riser shall also be listed by U.L. for intrinsic safety in a hazardous location.

All equipment shall be installed in accordance with the manufacturer's instructions and all applicable federal, state, and local laws and regulations.

## Part III: Requirements for Liquid-Filled Double Wall Tank

- 3.0 The interstice of the double wall tank shall be filled with a brine solution. Tanks up through 20,000 gallons shall be delivered to the site with the brine solution in the interstice. Brine filling of interstice on 25,000 and 30,000 gallon tanks shall be done at job site by contractor. The reservoir shall be constructed of fiberglass and mounted directly to the top of the tank. The reservoir shall be fitted with one 4" NPT fitting for installation of the electronic-reservoir probe.

## Part IV: Requirement for the Electronic Monitoring System

### 4.0 The Controller

The panel shall receive the signal from the reservoir and/or attached collar riser and provide for the following indications:

1. System normal
2. System fault (The "fault" indication must not be the same as the "alarm" indication.)
3. System leak alarm

Also, a system-test switch indicating the system is functional shall be provided.

All alarms shall be both audible and visible.

The unit shall be able to be reset.

The control panel shall provide indication of which tank is in the alarm condition, if more than one tank is being monitored.

The control panel shall be capable of monitoring up to eight probe points.

The system shall provide intrinsic safety at the probe locations:

### 4.1 Reservoir Probe

The probe shall be constructed of a material which is suitable for prolonged, complete immersion in the monitoring liquid.

The monitoring liquid may be: salt brine (30% CaCl in water).

The probe shall detect and report a change in liquid level either above (high-alarm point) or below (low-alarm point) the neutral level established during the initial filling and subsequent maintenance of the system. The probe shall not operate by inducing an electrical current into the liquid medium that is being monitored.

The sensing range represents a built-in allowance for pressure and thermal variation. Until the liquid level exceeds the allowable variation, the probe shall not send a signal to the monitor unit.

The probe shall be capable of being mounted in the reservoir in a manner that allows adjustment of location. The probe must be able to be mounted so that normal fluctuations of the liquid level do not interfere with the normal operation of the probe.

The probe shall be capable of operating at a distance of 500 feet from the control panel.

### 4.2 Attached Collar Riser Probe (if applicable and shown on the drawing)

The probe shall be constructed of a material that is suitable for prolonged, complete immersion in any of the fluids listed in U.L. Standard for Safety 1316, Table 14.1, all columns.

The probe shall detect the presence of liquid in the riser when the liquid level has risen to a maximum of one inch above the bottom of the probe, as located in its permanent mounting position. The permanent mounting position is determined by the installer at the time of installation.

The probe shall be capable of being mounted in the riser in a manner that allows adjustment of location. The probe shall be able to be mounted so that an increase in the liquid level does not interfere with the normal operation of the probe.

The probe-mounting assembly supplied and installed by contractors shall provide protection for the probe from the operational activities that may take place within the riser.

The probe shall be capable of operating at a distance of 500 feet from the control panel.

### 4.3 Operating Parameters:

Temperature: 0° F to 150° F

Voltage: 110 or 220 VAC, 50/60 Hz

## Part V: Performance

- 5.0 The continuous hydrostatic-monitoring system, including the electronics and the probes, shall be capable of detecting and alarming when the liquid level in the tank reservoir rises or drops beyond the allowable variation.

## Part VI: Materials

- 6.0 The materials used in the monitoring system shall be corrosion resistant to the liquid used to fill the interstice.

## Part VII: Installation

- 7.0 The monitoring systems shall be installed in accordance with the manufacturer's installation instructions, and all applicable federal, state, and local laws and regulations.

# Guide Specifications — Double Wall FRP Tanks for Fuel Storage

## SHORT FORM:

The contractor shall provide Double Wall Fiberglass Reinforced Plastic (FRP) Underwriters Laboratories-labeled underground storage tanks as shown on the drawings. Sizes and fittings shall be as shown. The tanks shall be fiberglass tanks as manufactured by Xerxes Corporation.

Tanks shall be tested and installed with pea gravel or crushed stone as specified in the current installation instructions provided with the tank.

## LONG FORM: Section 13177-1

### Part I: General

#### 1.0 Related Work Specified in Other Sections

- A. Liquid-Level Gauges: Section 15174
- B. Plastic Pipe: Section 15064
- C. Anchor Bolts: Section 05501
- D. Cast-in-Place Concrete: Section 03300

#### 1.02 Quality Assurance

- A. Acceptable Manufacturer: Xerxes Corporation
- B. Governing Standards, as applicable:
  - 1. ASTM standard document number D4021-86.
  - 2. Underwriters Laboratories, Inc. (U.L.) Standard for Safety 1316, File MH 9061 for storage of flammable liquids. A U.L.-certification plate shall be attached to each tank.
  - 3. National Fire Protection Association (NFPA) Standards:
    - NFPA 30: Flammable and Combustible Liquids Code
    - NFPA 30A: Automotive and Marine Service Station Code
    - NFPA 31: Installation of Oil-Burning Equipment.
  - 4. Factory Mutual Systems approval IM7AOAF.
  - 5. City of New York Department of Buildings M.E.A., Division #161-89-M
  - 6. Los Angeles Fire Department

### Part II: Products

#### 2.01 Double Wall Fiberglass Reinforced Plastic (FRP) Underground Storage Tanks:

- A. Loading Conditions — Tank shall meet the following design criteria:
  - 1. Internal Load: Tank shall withstand a 5 psi air pressure test with 5:1 safety factor. Contractor shall individually test tanks for leakage prior to installation. Maximum test pressure is 5 psi.
  - 2. Vacuum Test: To verify structural integrity, every tank shall be vacuum tested by the manufacturer at the factory to 11.5 inches of mercury.
  - 3. Surface Loads: Tank shall withstand surface H-20 axle loads when properly installed according to manufacturer's current installation instructions.

4. External Hydrostatic Pressure: Tank shall be capable of being buried in ground with 7' of overburden over the top of the tanks, the hole fully flooded and a safety factor of 5:1 against general buckling.

5. Tanks shall support accessory equipment — such as heating coils, drop tubes, submersible pumps and ladders — when installed according to tank manufacturer's recommendations and limitations.

#### B. Product Storage:

- 1. Tanks shall be capable of storing petroleum products with specific gravity up to 1.1.
- 2. Tanks shall be vented to atmospheric pressure. The tank is not designed as a pressure vessel, except for use with vapor-recovery systems, provided the pressure of vacuum does not exceed 1 psi.
- 3. Gasoline; gasohol (90% gasoline/10% ethanol mixture; 90.5% gasoline and 9.5% Oxinol-50\* (4.75% methanol and 4.75% GTBA mixture); Dupont EPA waiver (gasoline with 5% methanol and a minimum of 2.5% cosolvent-gasoline with up to 20% (by volume) of MTBE; gasoline/water/ethanol or methanol-blend motor fuels, including 100% ethanol or methanol or M85 (85% methanol) at ambient temperatures; jet fuel; av-gas; kerosene; diesel fuel; new or used motor oil; or used for fuel oil at temperatures not to exceed 150° F.

#### C. Materials:

- 1. Tanks shall be manufactured with 100% resin and glass fiber reinforcement. No sand fillers.

#### D. Tank Dimensions (Refer to Xerxes literature on gallonage.):

- 1. Tank shall have nominal capacity of \_\_\_\_\_ gallons.
- 2. Tank shall have nominal outside diameter of \_\_\_\_\_ feet.
- 3. Tanks shall have approximate overall length of \_\_\_\_\_ feet.

#### E. Interstitial Space

- 1. Tank shall have a space between the primary and secondary shell walls to allow for the free flow and containment of all leaked product from the primary tank. The space also allows the insertion of a monitoring device through a monitoring fitting.

#### 2.02 Appurtenances and Accessories

##### A. Optional Anchor Straps

- 1. Straps shall be FRP anchor straps as supplied by tank manufacturer.
- 2. Number and location of straps shall be specified in current literature by tank manufacturer.

##### B. Manways

- 1. All manways are to be flanged and 22" I.D., complete with U.L.-listed gaskets, bolts and covers. (30" and 36" I.D. manways are also available.)
- 2. Location is shown on standard tank drawings.
- 3. Optional manway extension tubes shall be FRP and 24" long.
- 4. Each steel manway cover shall have a minimum of three 4" NPT fittings. (See Dimensional Data on page 7-9 for actual size and quantity of fittings.)

# Guide Specifications — Double-Wall FRP Tanks for Fuel Storage

## C. Optional Fill Tubes

1. Fill-tubes shall be FRP or contractor supplied and installed aluminum. Locations are shown on drawings.

2. FRP tubes shall be 4" diameter, with a 6" x 4" double-tapped reducer bushing, and include a 6" NPT fitting on the tank. FRP tubes can be installed

in manway cover or tank shell wall. Aluminum tubes (contractor supplied) shall be 4" in diameter and fit directly into a 4" NPT fitting. Tubes shall terminate a minimum of 4" from the bottom of tank.

D. Gauge Plates — Gauge plates shall be installed under each service fitting and manway opening.

## E. Heating Coils

1. Optional heating coils shall be installed in a separate 22" manway and shall be the standard item supplied by tank manufacturer.

2. Location is shown in Dimensional Data on pages 7-9.

F. Optional Ladders — Ladders shall be the standard ladder as supplied by tank manufacturer (aluminum, carbon steel or fiberglass).

## G. NPT Threaded Fittings

1. All threaded fittings shall be a material of construction consistent with the requirements of the U.L. label.

2. All standard threaded fittings shall be half couplings and shall be 4" in diameter. Reducers are to be used for smaller sizes where shown and provided by contractor.

3. Sizes	Standard	Other Sizes
Fill	4"	_____
Gauge	4"	_____
Inlet	4"	_____
Outlet	4"	_____
Vent	4"	_____
Extra	4"	_____

4. Strength — NPT fittings shall withstand a minimum of 150 foot-pounds of torque and 1,000 foot-pounds of bending, both with a 2:1 safety factor.

H. Monitor fittings—Each monitor fitting shall consist of a 4" NPT fitting on the secondary tank.

## Part III: Execution

### 3.01 Installation

Contractor shall be trained by the tank manufacturer, the state or other approved agency.

### 3.02 Testing

Tanks shall be installed and tested according to current double wall installation instructions provided with the tank. (Refer to current publication and include as part of specification.)

## Part IV: Warranty

4.01 Warranty shall be manufacturer's current standard warranty.

## Warranty

### Petroleum or Alcohol Fuels Storage for Double Wall Underground Petroleum Storage Tank With Resin Specified For Expanded Fuels

Xerxes Corporation warrants that Xerxes underground storage tanks are U.L. listed and if used in accordance with Xerxes specifications and installed according to Xerxes published installation instructions and all applicable laws and regulations:

1) Will not fail for a period of thirty (30) years from date of original purchase due to external corrosion.

2) Will not fail for a period of thirty (30) years from date of original purchase due to internal corrosion, provided the tank is used solely with or without tank water bottoms for the following products:

a. Gasoline, gasoline (90% gasoline/10% ethanol mixture); 90.5% gasoline and 9.5% Oxinol-50\* (4.75% methanol and 4.75% GTBA mixture); Dupont EPA waiver (gasoline with 5% methanol and a minimum of 2.5% cosolvent — the blend may contain a maximum concentration of up to 3.7 weight percent oxygen in the final fuel); MTBE (methyl tertiary butyl ether — gasoline with up to 20% by volume, or MTBE: gasoline/water/ethanol or methanol blend motor fuels including 100% ethanol or methanol or M85 (85% methanol) at ambient temperatures; jet fuel; av-gas; kerosene; diesel fuel; new or used motor oil; or used for fuel oil at temperatures not to exceed 150° F.

Will not fail for a period of thirty (30) years from date of original purchase due to structural failure (defined as breaking or collapse) provided the installation is performed and validated by a qualified installation contractor, installed in the United States, and the tank is used as stated above.

4) Will meet Xerxes published specifications, and will be free from material defects in materials and workmanship for a period of one (1) year following date of original delivery by Xerxes.

If any tank(s) is to be removed from an installation, moved to original owner's new location and is intended for active service at the new location, the tank(s) must be recertified by Xerxes in order to maintain the warranty as originally extended.

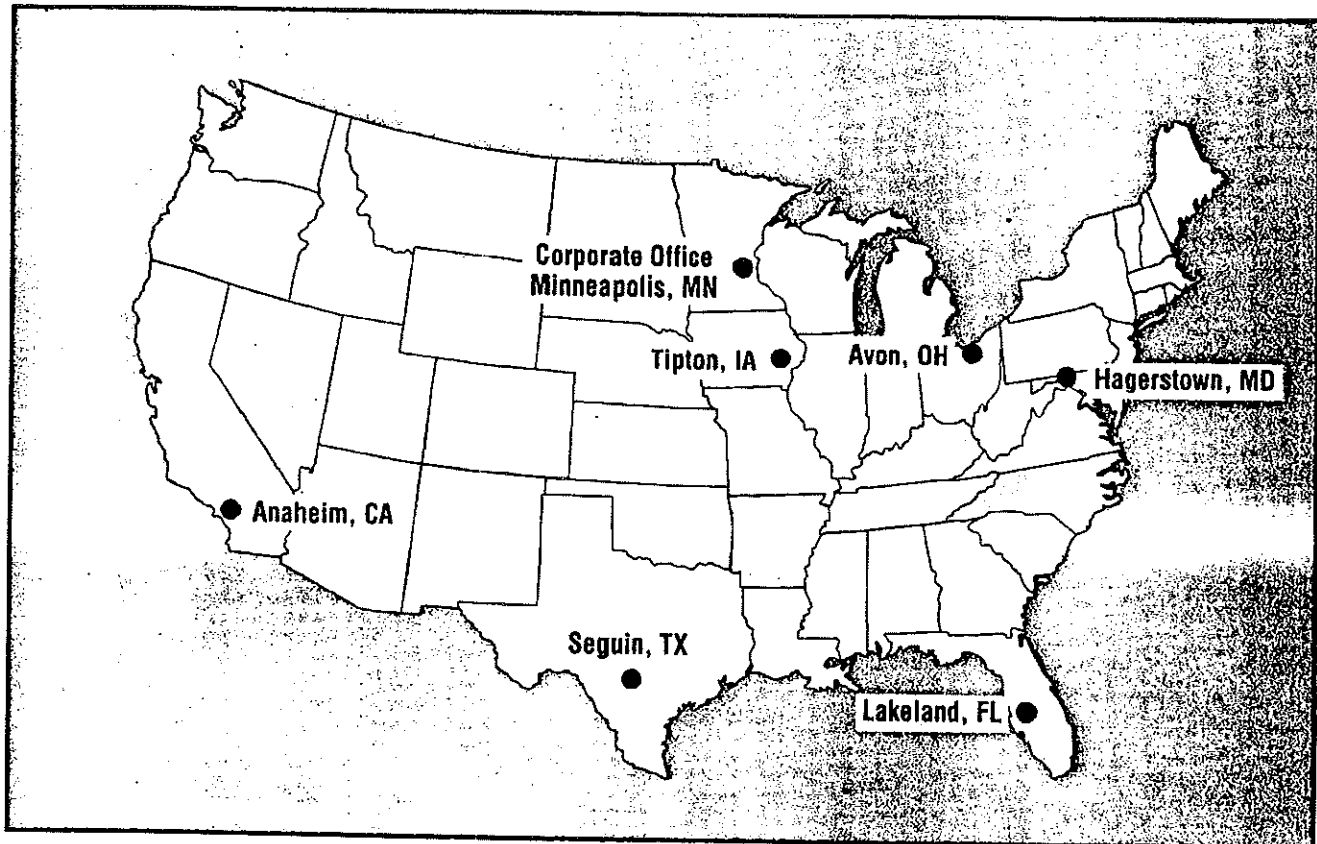
Xerxes' liability under this warranty shall be limited to, at Xerxes' option, (a) repair of the defective tank, (b) delivery of a replacement tank to the point of original delivery, or (c) refund of the original purchase price. A claimant must give Xerxes the opportunity to observe and inspect the tank prior to removal from the ground or the claim will be barred. All claims must be made in writing within one year after tank failure or be forever barred.

THE FOREGOING WARRANTY CONSTITUTES XERXES' EXCLUSIVE OBLIGATION AND XERXES MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, WITH RESPECT TO THE TANK OR ANY SERVICE, ADVICE, OR CONSULTATION, IF ANY, FURNISHED TO CUSTOMER BY XERXES OR ITS REPRESENTATIVES, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. THE REMEDIES SET FORTH IN THE ABOVE WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THE WARRANTY OR FOR BREACH OF ANY OTHER COVENANT, DUTY, OR OBLIGATION ON THE PART OF XERXES HEREUNDER. XERXES SHALL HAVE NO LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY DESCRIPTION, WHETHER ANY SUCH CLAIM BE BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER TORT, OR OTHERWISE.

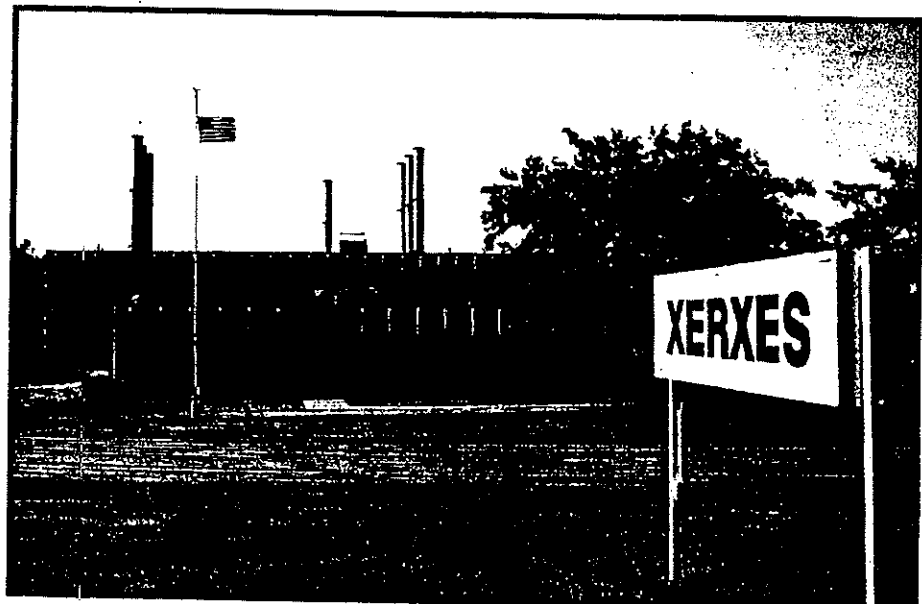
\*TM Arco Chemical Co.

Effective 5/15/93

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Xerxes' six strategically located plants allow us to provide prompt delivery and quality service both economically and efficiently to any location.



Tipton, Iowa

## XERXES®

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(216) 327-6051  
(301) 223-6961

Tipton, Iowa  
Seguin, Texas  
Lakeland, Florida

(319) 886-6172  
(210) 372-0090  
(813) 665-1471

Sent to TNRCC 6/22/98 UG-22 + UG-23

## TNRCC - UNDERGROUND STORAGE TANK REGISTRATION FORM

For Use  
in  
TEXAS



TEXAS  
NATURAL  
RESOURCE  
CONSERVATION  
COMMISSION

Please mail completed form to:

Registration Section, PST Division  
Texas Natural Resource Conservation Commission  
P.O. Box 13087, MC 138  
Austin, TX 78711-3087 (512) 239-2160

Facility ID Number (if known)

0048274

Owner ID Number (if known)

24794

Tax ID Number (Optional)

### I. OWNER INFORMATION

Owner Name Bureau of Engraving & Printing  
Mailing Address 9000 Blue Mound Road  
City FORT WORTH State TX Zip Code 76131  
County TARRANT

Contact Person D. Leon Griffin Telephone (817) 847-3887

TYPE OF OWNER (Mark all that apply)

- ☐ Private or Corporate ☐ State Government  
☐ Local Government ☒ Federal Government

Location of Records (if off-site)

Address, City, State

Contact Person

Telephone

### II. FACILITY INFORMATION

Facility Name Bureau of Engraving & Printing  
Physical Address 9000 Blue Mound Rd.  
City FORT WORTH State TX Zip Code 76131  
County TARRANT

Contact Person Ms Colleen McKinney Telephone (817) 847-3820

TYPE OF FACILITY (Mark all that apply)

- ☐ Retail ☐ Farm or Residential ☐ Wholesale  
☐ Fleet Refueling ☐ Aircraft Refueling ☐ Indian Land  
☒ Indus./Chem./Mfr. Plant  
☐ Other (please specify)

Number of aboveground  
storage tanks at this facility 0

Number of underground  
storage tanks at this facility 2

### III. REGISTRATION STATUS

REASON FOR SUBMITTING FORM (Mark all that apply)

- ☐ Original Form ☐ Ownership Change (effective date \_\_\_\_/\_\_\_\_/\_\_\_\_) ☐ Owner Information Update  
☐ Facility Information Update ☒ Tank Information Update (please complete back side of form)  
☐ Other (please specify) Please update tank information on back of form.

### IV. FINANCIAL RESPONSIBILITY

Does this facility meet financial responsibility requirements for corrective action? ☐ Yes ☐ No

Does this facility meet 3rd party liability requirements? ☐ Yes ☐ No

If yes, please specify mechanism (Mark all that apply)

- ☐ Letter of Credit ☐ Trust Fund ☐ Insurance or Risk Retention Group ☐ PST Remediation Fund\* ☐ Standby Trust Fund  
☐ Guarantee ☐ Financial Test ☐ Surety Bond ☐ Bond Rating Test\*\* ☐ Local Gov. Fund\*\*

\* Only an acceptable mechanism for Financial Assurance until September 1, 2001. \*\* For local government only.

### V. INSTALLER CERTIFICATION

NOTE: This section must be completed and signed by the Installer. Leave blank if no tank installation activity is involved.

I certify that the information provided concerning recent installations is true to the best of my belief and knowledge:

Was tank testing completed during and after installation? ☐ Yes ☐ No

Installation Company Name (print) \_\_\_\_\_

Contractor's Registration Number CRP

Installer's Name (print) \_\_\_\_\_

Installer's License Number ILP

Installer Signature \_\_\_\_\_

Date Signed \_\_\_\_\_

### VI. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner or Owner's Authorized  
Representative (print) \_\_\_\_\_

D. Leon Griffin

Title (print) Manager, Technical Support Div.

Signature \_\_\_\_\_

Date Signed 6-22-98

# VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS (UST's)

Tank ID (e.g. 1, 2, 3 or A, B, C)	# 1 (UG 22)	# 2 (UG 23)		
<b>TANK STATUS</b>				
Tank Installation Date (month/day/year)	1/0,000	1/0,000		
Tank Capacity (gallons)	10,000	10,000		
1. Currently in Use	1. <input checked="" type="checkbox"/>	1. <input checked="" type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Temporarily Out of Service (date)	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
Emptied (Yes/No)	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Permanently Abandoned In-place (date)	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
(must be filled with sand or concrete, etc.)				
4. Permanently Removed from the Ground (date)	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
<b>SUBSTANCE STORED</b>				
1. Gasoline	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Diesel	2. <input checked="" type="checkbox"/>	2. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. Kerosene	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
4. Used Oil	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
5. New Oil	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>
6. Other Petroleum Substance (please specify)	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>
7. Hazardous Substance	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>
a. Name of Principal CERCLA Substance	a. <input type="checkbox"/>	a. <input type="checkbox"/>	a. <input type="checkbox"/>	a. <input type="checkbox"/>
b. Chemical Abstract Service (CAS) No.	b. <input type="checkbox"/>	b. <input type="checkbox"/>	b. <input type="checkbox"/>	b. <input type="checkbox"/>
c. Mixture of Hazardous Substances (please specify)	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>
8. Mixture of Petroleum & Hazardous Substance	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>
9. Other (please specify)	9. <input type="checkbox"/>	9. <input type="checkbox"/>	9. <input type="checkbox"/>	9. <input type="checkbox"/>
<b>UST CONSTRUCTION AND CONTAINMENT</b>				
1. Single Wall	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Double Wall	2. <input checked="" type="checkbox"/>	2. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. External Jacket System	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
4. Excavation/Trench Liner System	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
5. Piping System:	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>
a. Pressurized	a. <input checked="" type="checkbox"/>	a. <input checked="" type="checkbox"/>	a. <input type="checkbox"/>	a. <input type="checkbox"/>
b. Suction	b. <input type="checkbox"/>	b. <input type="checkbox"/>	b. <input type="checkbox"/>	b. <input type="checkbox"/>
c. Gravity	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>
6. Other (please specify)	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>
<b>MATERIAL OF CONSTRUCTION</b>				
1. Steel	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Fiberglass-Reinforced Plastic (FRP)	2. <input checked="" type="checkbox"/>	2. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. Composite (steel w/FRP laminate)	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
4. Concrete	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
5. Other (please specify)	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>
<b>RELEASE DETECTION</b>				
1. Vapor Monitoring	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Groundwater Monitoring	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. Monitoring Above Excavation Liner	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
4. Automatic In-Tank Monitoring & Inventory Control	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
5. Interstitial Monitoring for Double Wall UST's	5. <input checked="" type="checkbox"/>	5. <input checked="" type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>
6. Tightness Testing	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>
7. Inventory Control	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>
8. Statistical Inventory Reconciliation (SIR)	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>
9. None	9. <input type="checkbox"/>	9. <input type="checkbox"/>	9. <input type="checkbox"/>	9. <input type="checkbox"/>
10. Line Leak Detectors	10. <input type="checkbox"/>	10. <input type="checkbox"/>	10. <input type="checkbox"/>	10. <input type="checkbox"/>
11. Other (please specify)	11. <input type="checkbox"/>	11. <input type="checkbox"/>	11. <input type="checkbox"/>	11. <input type="checkbox"/>
<b>CORROSION PROTECTION</b>				
1. External Dielectric	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
Coating/Laminate/Tape/Wrap				
2. Cathodic Protection - Installation:	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
Factory <input type="checkbox"/> Field <input type="checkbox"/>				
3. Composite Tank (steel w/FRP cladding)	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
4. Noncorrodible Material (e.g., FRP)	4. <input checked="" type="checkbox"/>	4. <input checked="" type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
5. Electrical Isolation	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>	5. <input type="checkbox"/>
6. None	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>	6. <input type="checkbox"/>
7. Other (please specify)	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>	7. <input type="checkbox"/>
<b>SPILL AND OVERFILL PREVENTION</b>				
1. Tight-Fill Fitting	1. <input checked="" type="checkbox"/>	1. <input checked="" type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Spill Container/Liquid-Tight Sump	2. <input checked="" type="checkbox"/>	2. <input checked="" type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. Automatic Overfill Device:	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
a. Shut-Off Valve	a. <input type="checkbox"/>	a. <input type="checkbox"/>	a. <input type="checkbox"/>	a. <input type="checkbox"/>
b. Flow Restrictor Valve	b. <input checked="" type="checkbox"/>	b. <input checked="" type="checkbox"/>	b. <input type="checkbox"/>	b. <input type="checkbox"/>
c. Alarm with a. or b.	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>	c. <input type="checkbox"/>
4. None	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>	4. <input type="checkbox"/>
Indicate VAPOR RECOVERY EQUIPMENT STATUS if gasoline is stored and dispensed at this facility, and if facility is located in an ozone nonattainment area:				
<input type="checkbox"/> Stage II equipment installation date: <u>    </u> <u>    </u> <u>    </u> <input type="checkbox"/> No Stage II equipment <input type="checkbox"/> Exempt <input type="checkbox"/> Qualified for ISBMG extension				

# NATKIN & COMPANY

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March 27, 1991

UG-24

Clearwater Constructors, Inc.  
3050 Regent Blvd.  
Suite 230  
Irving, Texas 75063

Attention: Mr. Paul Ligocki

Reference: Western Currency Production Facility  
Fort Worth, Texas  
Contract No. DACW63-89-C-0153  
Natkin Job No. 7703

Subject: Double wall fiberglass underground  
Storage tank for chemical storage  
Transmittal No. 581A

Gentlemen:

Natkin & Company reiterates that the American Petroleum Institute does not have a standard for the installation of underground chemical storage tanks. The non-existence of this standard may be verified by contacting Mr. Mike Loudermilk, API, 1201 Main St. Suite 2535, Dallas, Texas 75201, (214) 748-3841.

We do acknowledge that API 1615 "Installation of Underground Petroleum Storage Systems" does exist as noted in the C.O.E. response to transmittal No. 581.

We have also been instructed to provide a full explanation for any deviation from this standard.

## Deviation

Tank as specified and installed is not for the underground storage of petroleum products.

Natkin and Company does certify that this tank has been installed in accordance with the following sections of API Recommended Practice 1615, Fourth Edition, November 1987:

Page Two  
Clearwater Constructors, Inc.

Section

1.1	6.4	10.5
2.1.2	9.1	11.2.1
3.4	9.4	11.2.2
3.5	10.1	11.2.3
5.1	10.2	11.2.4
5.3	10.3.1	11.2.5
6.1	10.3.2.2	11.2.6
6.2	10.3.2.3	

Sincerely,

NATKIN & COMPANY

*Bruce S. Warnke*

Bruce Warnke  
Project Manager

BW/tf



C

Material Safety Data Sheet- Page 1 of 3  
*Bureau Of Engraving And Printing*  
Identity : Black Ink BK-3989-215-Non Mag  
Date 7 / 97

**Section I - Chemical Product And Company Identification**

Product : Black Ink BK-3989-215-Non Mag

Manufacturer : Bureau Of Engraving And Printing

9000 Blue Mound Road

Ft. Worth, TX. 76131

Prepared By : Office Of Human Resources-Safety and Occ. Health Division  
(202) 874-3593

Date Prepared : 5 / 97

Hazard Ratings : Health - 1 (slight)

Flammability - 1 (slight)

Reactivity - 0 (Minimal)

APPROVED FOR USE BY THE  
SAFETY & HEALTH OFFICE

MSDS #: 0915

DATE REVIEWED: 7-25-97

REVIEWED BY: DM

**Section II - Composition/Ingredient Information**

Component Name with Hazardous chemical, Percent, CAS #	% Component in Ink	% Hazardous Chemical in Ink	Occupational Exposure Limits
1. Raven 410 a. Carbon Black (100%) CAS # 1333-86-4	< 7 %	< 7 %	3.5 mg/m <sup>3</sup> PEL-TWA 3.5 mg/m <sup>3</sup> TLV-TWA
2. Low Viscosity Alkyd	< 4 %	< 4 %	N/A
3. I-601 Aqua Wipe Varnish a. Diethylene Glycol Mono Ethyl Ether (2%) CAS # 111-90-0	< 30 %	< 1 %	30 ppm ( SICPA )
4. Cobalt 5.6% Drier a. Cobalt Tallate (5.6% as Co) CAS # 61789-52-4	< 2 %	< 1 %	0.05 mg/m <sup>3</sup> PEL-TWA 0.05 mg/m <sup>3</sup> TLV-TWA
5. 5% Manganese Lin-All Drier a. Manganese Tallate (6% as Mn) CAS # 3030-70-4	< 2 %	< 1 %	5 mg/m <sup>3</sup> PEL-Ceiling 5 mg/m <sup>3</sup> TLV-Ceiling
b. Heavy Distillates (2%) CAS # 88478-34-3		< 1 %	5 mg/m <sup>3</sup> TLV-TWA 10 mg/m <sup>3</sup> TLV-STEL
6. CC-5029D	< 5%	< 5%	N/A
7. G-3300 Surfactant (alkyl aryl sulfonate, amine salt)	< 2 %	< 2%	N/A
8. 4607 Alkyd	< 3%	< 3%	N/A
9. Plate Oil U	< 1.5%	< 1.5%	N/A
10. Calcium Carbonate CAS # 471-34-1	< 45 %	< 45 %	5 mg/m <sup>3</sup> PEL-TWA (Resp) 15 mg/m <sup>3</sup> PEL-TWA (Total) 10 mg/m <sup>3</sup> TLV-TWA (Total)

Material Safety Data Sheet- Page 2 of 3  
Bureau Of Engraving And Printing  
Identity : Black Ink BK-3989-215-Non Mag  
Date 7 / 97

Section III - Health Hazard Data

Routes of Entry: Inhalation? Yes. Skin/eye? Yes. Ingestion? Yes.

Health Hazards: Skin contact may cause irritation or dermatitis.

Eye contact may cause tearing, burning or irritation.

Excessive inhalation of vapors or mists may cause local irritation, headache, dizziness, drowsiness, nausea, giddiness, pneumonia, central nervous system depression.

Ingestion may cause vomiting.

Carcinogenicity: NTP? N/E

IARC Monographs? N/E

OSHA Regulated? N/E

Inhalation: Remove to fresh air; if breathing is difficult, get medical attention.

Signs & Symptoms of Exposure: Skin/eye irritation, headache, drowsiness, dizziness, nausea, central nervous system depression, giddiness.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye and skin disorders.

Emergency & First Aid Procedures:

Eyes: Flush with water for 15 minutes; if irritation develops, get medical attention.

Skin: Wash with soap and water; if irritation develops, get medical attention.

Section IV - Fire and Explosion Hazard Data

Flash Point N/E

Lower Flammable Limit N/E

Upper Flammable Limit N/E

Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical

Special Fire Fighting Procedure: Use self-contained breathing apparatus to protect against potentially harmful and/or irritating fumes.

Unusual Fire & Explosion Hazards: Protect drums from exposure to extreme heat.  
N/E - Not Established

Section V - Precautions for Safe Handling and Use

Steps to Be Taken In Case Material is Released or Spilled: Collect into suitable container for appropriate disposal. Use nitrile gloves and apron to avoid skin contact.

Waste Disposal Method: Dispose of in accordance with applicable federal and local environmental control regulations.

Precautions to Be Taken in Handling and Storing: Use nitrile gloves and apron to avoid skin contact. Keep container covered when not in use. Avoid high temperature and direct sunlight.

Other Precautions: None.

Section VI - Control Measures

Ventilation: Use adequate ventilation to avoid build-up of vapors/mists.

Respiratory Protection: Previous air sampling indicates that ventilation is adequate in maintaining employee exposure to ink components below permissible exposure limits. If necessary for comfort purposes, use air-purifying respirator equipped with organic-vapor cartridges.

Protective Gloves: Nitrile gloves.

Eye Protection: Goggles, safety glasses, full-face shields

Other Protective Clothing or Equipment: Disposable go coats, aprons, long sleeves, coveralls.

Material Safety Data Sheet- Page 3 of 3  
*Bureau Of Engraving And Printing*  
Identity : Black Ink BK-3989-215-Non Mag  
Date 7 / 97

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**Work/Hygienic Practices:** Avoid skin/eye contact and contamination of clothing. Wash hands thoroughly with soap and water after handling ink and before leaving work area. Launder contaminated clothing before reuse. Do not eat, drink, or smoke in work area.

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**Section VII - Physical/Chemical Characteristics**

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Boiling Point: N/E	Specific Gravity: N/E
Vapor Pressure: N/E	Vapor Density: N/E
Solubility in water: N/E	pH: N/E
Physical State/Odor: Black paste/ hydrocarbon odor.	Evaporation Rate: N/E
% volatile by volume: N/E	Melting Point: N/E
N/E - Not Established	

---

**Section VIII - Reactivity Data**

Stability: Stable.  
Conditions to Avoid: Extreme heat, high pressure.  
Incompatibility (Materials to Avoid): Strong oxidizing and reducing chemicals.  
Hazardous Decomposition Byproducts: CO<sub>2</sub>, CO  
Hazardous Polymerization: Will not occur

END OF MSDS



## Section I - Chemical Product And Company Identification

Product : Black Ink BK-3795-54, 57, 58, 59

Manufacturer : Bureau Of Engraving And Printing  
9000 Blue Mound Road  
Ft. Worth, TX. 76131

Prepared By : Office Of Human Resources-Safety and Occ. Health Division  
(202) 874-3593

Date Prepared : 4 / 96

Hazard Ratings : Health - 1 (slight)  
Flammability - 1 (slight)  
Reactivity - 0 (Minimal)

APPROVED FOR USE BY THE  
SAFETY & HEALTH OFFICE

MSDS #: 0916

DATE REVIEWED: 7-25-97

REVIEWED BY: SPH

## Section II - Composition/Ingredient Information

Component Name with Hazardous chemical, Percent, CAS #	% Component In Ink	% Hazardous Chemical In Ink	Occupational Exposure Limits
1. Prewipe Black Ink (SICPA I-287)	75 - 85%	75 - 85%	N/A
2. Low Viscosity Alkyd	0 - 4 %	0 - 4 %	N/A
3. Odorless Mineral Spirits	0 - 2 %	0 - 2 %	100 ppm recommended as PEL/TWA

## Section III - Health Hazard Data

Routes of Entry: Inhalation? Yes. Skin/eye? Yes. Ingestion? Yes.

Health Hazards: Skin contact may cause irritation or dermatitis.

Eye contact may cause tearing, burning or irritation.

Excessive inhalation of vapors or mists may cause local irritation, headache, dizziness, drowsiness, nausea, giddiness, pneumonia, central nervous system depression.

Ingestion may cause vomiting.

Carcinogenicity: NTP? N/E

IARC Monographs? N/E

OSHA Regulated? N/E

Inhalation: Remove to fresh air, if breathing is difficult, get medical attention.

Signs & Symptoms of Exposure: Skin/eye irritation, headache, drowsiness, dizziness, nausea, central nervous system depression, giddiness.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye and skin disorders.

Emergency & First Aid Procedures:

Eyes: Flush with water for 15 minutes; if irritation develops, get medical attention.

Skin: Wash with soap and water; if irritation develops, get medical attention.

Material Safety Data Sheet- Page 2 of 2  
Bureau Of Engraving And Printing  
Identity : Black Ink BK-3795-54, 57, 58, 59  
Date 7/97

Section IV - Fire and Explosion Hazard Data

Flash Point: N/E  
Lower Flammable Limit: N/E  
Upper Flammable Limit: N/E  
Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical  
Special Fire Fighting Procedure: Use self-contained breathing apparatus to protect against potentially harmful and/or irritating fumes.  
Unusual Fire & Explosion Hazards: Protect drums from exposure to extreme heat.  
N/E - Not Established

Section V - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Collect into suitable container for appropriate disposal. Use nitrile gloves and apron to avoid skin contact.  
Waste Disposal Method: Dispose of in accordance with applicable federal and local environmental control regulations.  
Precautions to Be Taken in Handling and Storing: Use nitrile gloves and apron to avoid skin contact. Keep container covered when not in use. Avoid high temperature and direct sunlight.  
Other Precautions: None.

Section VI - Control Measures

Ventilation: Use adequate ventilation to avoid build-up of vapors/mists.  
Respiratory Protection: Previous air sampling indicates that ventilation is adequate in maintaining employee exposure to ink components below permissible exposure limits. If necessary for comfort purposes, use air-purifying respirator equipped with organic-vapor cartridges.  
Protective Gloves: Nitrile gloves.  
Eye Protection: Goggles, safety glasses, full-face shields  
Other Protective Clothing or Equipment: Disposable lab coats, aprons, long sleeves, coveralls.  
Work/Hygienic Practices: Avoid skin/eye contact and contamination of clothing. Wash hands thoroughly with soap and water after handling ink and before leaving work area. Launder contaminated clothing before reuse. Do not eat, drink, or smoke in work area.

Section VII - Physical/Chemical Characteristics

Boiling Point: N/E	Specific Gravity: N/E
Vapor Pressure: N/E	Vapor Density: N/E
Solubility in water: N/E	pH: N/E
Physical State/Color: Black paste/ hydrocarbon odor.	Evaporation Rate: N/E
% volatile by volume: N/E	Melting Point: N/E
N/E - Not Established	

Section VIII - Reactivity Data

Stability: Stable.  
Conditions to Avoid: Extreme heat, high pressure.  
Incompatibility (Materials to Avoid): Strong oxidizing and reducing chemicals.  
Hazardous Decomposition Byproducts: CO<sub>2</sub>, CO  
Hazardous Polymerization: Will not occur.